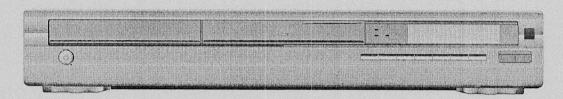
Service Manual

DVD HOME THEATRE SYSTEM



DV-R3300SS

CONTENTS

Specifications	Page 1
Performance Specifications	
Electrical Parts List	
Printed Circuit Boards	
Wiring Diagram	33
Schematic Diagrams	37
Alignment Set-up Procedures	54
Equipment Connection Diagram	54
Voltage Chart	55
IC Block Diagrams & IC Pins Description	62
Block Diagrams	
Exploded Drawing Parts List	85
Exploded Drawing	90

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety characteristics. These safety characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by \hat{T} in the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire or other hazards.

SPECIFICATIONS

Unit

Power supply AC 230V ~ 50Hz Power consumption

25 W

Signal system Standard PAL

Laser Semiconductor laser, wavelength 650/780nm

Signal-to-noise More than 95dB Audio dynamic range More than 93dB Harmonic distortion Less than 1%

Operating temperature 41°F to 95°F (+5°C to 35°C) Operating humidity 5% to 85% (no condensation)

Video Output / Input

Output level 1 Vp-p (75 Ω)

750mV input (5Ω 10% THD output) Input level

Jack RCA/Pin jack

Audio Output / Input

Output level 1.80 ± 0.2 Vrms (1 kHz, 0dB) Input level 750mV input (5Ω 10% THD output) Jack

RCA/Pin jack

Speakers Section

Speakers (Front/Center/Rear)

Speaker system Bass reflex

Speaker unit 70 mm dia. cone type

Rated impedance 8 ohms

Subwoofer Section

Power consumption 230 W Speaker system Bass reflex

Speaker unit 165 mm dia. cone type

Rated impedance 4 ohms

Specifications and external appearance are subject to change without notice.

PERFORMANCE SPECIFICATIONS

GENERAL TEST CONDITION

Power Supply

Input Signal Source

Modulation

: AC 230V 50Hz **Output Load** : 8 ohm non-reactive x5 Subwoofer 4ohm x1

: 500 mW Reference Output

: External AM Loop Antenna

75 ohm Dummy Antenna for FM

30% 400Hz for AM 80% for Power

75kHz Deviation 1000Hz for FM

7.5kHz Pilot Tone

67.5kHz L+R 1000Hz

	TEST ITEMS		UNIT	NOMINAL	LIMIT
1	10% THD Power AC (FL, FR)		W	30	26
2	Frequency Response (CT) 1K=0dB	20Hz	dΒ	-10	±5
		100Hz	dB	0	±3
		10kHz	dB	0	±3
		20kHz	dB	0	±6
3	Frequency Response (RR, RL)	20Hz	dB	-10	±5
	1K=0dB	100Hz	dB	0	±3
		10kHz	dB	0	±3
		20kHz	dB	0	±5
4	Frequency Response (FL, FR)	20Hz	dB	-10	±5
	1K=0dB	100Hz	dB	0	±3
		10kHz	dB	0	±3
		20kHz	dB	0	±3
5	Frequency Response	20Hz	dB	43	35
	(Subwoofer) 1K=0dB	100Hz	dB	43	35
6	10% THD Power AC (Subwoofer)		W	50	45
7	Subwoofer THD (100Hz Ref O/P)		%	0.5	1.0
8	THD (1kHz, Ref O/P) FR, FL		. %	0.5	0.8
9	Channel Unbalance (L&R)	1kHz	dB	±1	±3
10	Minimum Vol Hum (UNWGTD/WGTD)		mV	3	8
11	Maximium Vol Hum (UNWGTD/WGTD)		mV	8	15
12	S/N (UNWGTD/CCIR-ARM2K) (L&R)	1kHz	dB	60	55
13	Separation (FL & FR)		dB	48	±5

REMARKS:

NOTE: All measurement should be done at bypass mode withou EQ effects.

More audio prologic : on

ITEM 1,2,3,4 Should be set up at DVD mode, and set subwoofer as off,

speaker as large.

2

PERFORMANCE SPECIFICATIONS - CONTINUED

	I) SECTION, FREQUENCY, MODULATION TEST ITEMS	UNIT	MOMENTAL	1.154/7
_			NOMINAL	LIMIT
1	Tuning Range	MHz	87.5 - 108	
2	I. F.	MHz	10.7	±0.3
3	30dB S/N 90MHz	μV	20	25
	98MHz	μV	20	25
	106MHz	μ۷	20	25
4	-3dB Limit Sens.	dB	16	30
5	I. F. Rej. 98MHz	dB	60	50
6	Image Rej. 106MHz	dB	30	26
7	Spurious Rejection (F+0.535 MHz)	dB	40	35
	(Max. Sens. + 6dB)			
8	AM Suppression (60dB I/P)	dB	45	30
9	Mod. Hum (60dB I/P)	dB	48	42
10	Distortion at 1mV/m (Mono) 22.5kHz	%	1	2
	100 mV/m 75kHz	%	3	5
11	Audio Fidelity, (-3dB) (Pre-emphass) (75µS) (FR.FL)	Hz	60/9000	120/6000
	Subwoofer 1kHz=0dB 100Hz	dB	36	30
12	Power Out, 10% THD (75K DEV) 1K=1mV	W	30	26
	Subwoofer Power Out, 10% THD (75K DEV) 100Hz=1mV	w	50	45
13	Low Voltage AC	%	80	85
14	S/N Ratio at 1mV 98MHz	dB	50	42
	(Stereo) Dev. 10% Pilot with "19" Filter	dB	-	-
15	Alternate Channel Selective ±400 kHz	dB	25	18
16	Stereo Separation	dB	26	22
17	19 kHz Leak Carrier	dB	32	27
18	Stereo LED Indication	dB	26	30
19	Step Frequency	kHz	-	100
	Auto Stop Sens.	dB	26	32
	Minimum Vol Hum	mV	1.0	3.0

REMARKS:

NOTE: All measurement should be done at bypass mode withou EQ effects.

M۷	V/FM STEREO & RDS TUNIN	G WITH DVD PLAY	ER			
	FM STEREO & RDS SECTION 37.	5kHz		UNIT	NOR	LIMIT
	(MAIN+SUB 75 kHz (PILOT) 1.2K	(RDS) DEV & 1kHz INP	UT			
1	Stereo Separation	MOD FREQ 100Hz	L/R	dB	30	25
	1mV Input	MOD FREQ 100HZ	R/L	dB	30	25
		MOD FREQ 1kHz	L∕R	dB	30	25
		MOD FREQ IKITZ	R/L	dB	30	25
		MOD FREQ 10kHz	⊔R	dB	25	18
		WOD FREQ TORIZ	R/L	dB	25	18
2	Stereo On Sensitivity		98MHz	dB	5	<18
3	S.N.C (SEP=10dB)		98MHz	dB	34	34±8
4	RDS Indicator Sensitivity		98MHz	dB	28	<36
5	RDS Seek Sensitivity		98MHz	dB	28	<36
6	TA Indicator Sensitivity		98MHz	dB	28	<36
7	TA Seek Sensitivity		98MHz	dB	28	<36

PERFORMANCE SPECIFICATIONS - CONTINUED

	TEST ITEMS		UNIT	NOMINAL	LIMIT
1	Tuning Range		kHz	531 - 1602	•
2	l. F.		kHz	450	±3
3	S/N 10mV/m	1MHz	dB	36	30
4	Sens. (at S/N 20dB)	0.6MHz	dB	60	64
		1MHz	dB	60	64
		1.4MHz	dB	60	64
5	I. F. Rej.	0.6MHz	dB	50	46
6	Image Rej.	1.4MHz	dB	30	24
7	Spurious Rejection		dB	35	25
8	Bandwidth,	1MHz	kHz	6	4 - 9
	(Max. Sens. +6 dB)				
9	ACA (±9 kHz) Input	1MHz	dB	20	15
10	AGC Figure Merit	100mV/m	dB	45	40
11	Distortion, 5mV/m, 30%		%	1	3
	80%		%	3	6
12	a.10% THD Power AC	DEV 80%	W	30	26
	b. Woofer 10%	DEV 80%	W	50	45
13	a. Tweet (2nd 910kHz & 3rd 1350kHz)		dB	15	10
	at 75 dB I/P				
14	Audio Fidelity, Centre ±(6) dB		Hz.	60/2200	120/2000
15	Low Voltage AC		%	80	85
16	a. Mod. Hum 10mV/M		dB	36	30
	b. Hum at Min. Vol.		mV	1	3
17	Auto Stop Sens.		dB	64	70
18	Step Frequency		kHz	-	10

REMARKS:

NOTE: All measurement should be done at bypass mode withou EQ effects.

	TEST ITEMS		UNIT	NOMINAL	LIMIT
1	Signal Level (LT2-1)	Composite	V(pp)	1.0	±0.2
	75Ω Terminate	S-Y	V(pp)	0.714	±0.2
	Oscilloscope	S-C (BURST)	V(pp)	0.286	±0.05
	75% Color Bar	Component-Y	V(pp)	0.714	±0.2
2	Frequency Char. Composite	1.0/0.5MHz		0	±2.0
	(LT2-1, REF=0dB 0.5MHz, L156 VM700A	2.0/0.5MHz	dB	0	±2.0
	Composite)	4.0/0.5MHz	dB	0	±2.5
		4.75/0.5MHz	dB	0	±3.5
		5.75/0.5MHz	dB	-2.0	+3-4
3	Frequency Chap. S-Y	1.0/0.5MHz	dB	0	±2.0
	(LT2-1, REF=0dB 0.5MHz, L156 VM700A)	2.0/0.5MHz	dB	0	±2.0
	S-Y	4.0/0.5MHz	dB	0	±2.5
		4.75/0.5MHz	dB	0	±2.5
		5.75/0.5MHz	dB	-2.0	+3-4
4	Composite Video-S/N	100K-4.2MHz	dB	60	50
	(LT2-1) One Line Only	(SC TR ON)			
	L131 VM700A				
5	S-Y S/N (LT2-1 One Line Only)	100K-4.2MHz (SC TR ON)	dB	60	50
6	Color-AM Color-PM (One Lone Only)	100Hz-500kHz	dB		>40
	(LT2-1, L131 VM700A)		dB	1 1	>40

PERFORMANCE SPECIFICATIONS - CONTINUED

D۷	D AUDIO SECTION (LINE OUTPUT)			
	TEST ITEMS	UNIT	NOMINAL	LIMIT
	THD+N (LT2-1, 3-1 20kHz LPF On)	%		0.05
2	Output Level (LT2-1, 3-1)	V	2	±0.3
3	S/N (LT2-1, 3-20 JIS-A Filter On)	dB	80	70
4	Crosstalk (LT2-1, 3-21.22 1kHz, BPF On)	dB		70
5	Frequency Range			
	(48kHz / 24BIT) (LT2-1. 3-1~19) 31H	dB	0	±1.0
	(FL, FR) 499H	dB	0	±1.0
	1kH	dB	0	±1.0
	10kH	dB	0	±1.0
	22kH	dB	0	±1.0
6	Frequency Range 20H	dB	0	±3.0
	(96kHz / 24BIT LT2-1, 6-1~12) 400H	dB	0	±3.0
	(FL, FR) 1kH:	dB	0	±3.0
	12.8kH	dB	0	±3.0
	20kH	dB	0	±3.0
7	Digital Output Level	mV	500	±100
	(LT2-1, 1-1 75Ω Loading On)			
	Dynamic Range	dB	-	80
	Black Band (TDV 545)	μM	-	600
	Finger Print (TDV 545)	μM	-	No.13
	Eccentric (MDVD142 TEAC)	μM	-	200
12	Vertical (MDVD151_TEAC)	mm	-	0.6
	CD SECTION			
1	Interruption (Philips SBC444A)	μM	-	600
	Black Dot	μM	-	600
_	Fingerprint	μM	-	No.18
	Eccentric (TCO-712 ABEX)	μM	-	140
5	Vertical (TCO-713R ABEX))	mm	-	0.8
	CD-R SECTION			
	Black Band (TCD-R025W)	μM	800	600
2	Finger Printers (TCD-R025W)	μM	-	65
_	Scratch (TCD-R021W)	mm	1.8	1.6
4	Eccentric (TCD-R012W)	μM	-	140
5	Deviation (TCD-R032W)	μM	-	810
	CD-RW SECTION			
1	Black Band (TCD-W025W)	μM	600	500
2	Finger Printers (TCD-W025W)	μM		65
	Scratch (TCD-W021W)	mm	-	1.0
	Eccentric (TCD-W012W)	μM	-	140
5	Deviation (TCD-W032W)	μM	-	810

PERFORMANCE SPECIFICATIONS - CONTINUED

	10% THD Power AC (FL, FR)		NOMINAL	LIMIT
2	1070 1110 1 01101 110 (1 2,111)	W	30	26
	Frequency Response (CT) 1K=0dB 20H	z dB	-10	±5
	100H	z dB	0	±3
	10kF	z dB	0	±3
	20kF	z dB	0	±6
3	Frequency Response (RR, RL) 20F	z dB	-10	±5
	1K=0dB 100H	z dB	0	±3
	10kH	z dB	0	±3
	20kH	z dB	0	±5
4	Frequency Response (FL, FR) 20H	z dB	-10	±3
	1K=0dB 100H	z dB	0	±3
	10kH	z dB	0	±3
	20kH	z dB	0	±3
5	Frequency Response 20H	z dB	36	30
	(Subwoofer) 1K=0dB 100H	z dB	36	30
6	10% THD Power AC (Subwoofer)	w	50	45
	Subwoofer THD (100Hz Ref O/P)	%	0.5	1.0
8	THD (1kHz, Ref O/P) FR, FL	%	0.5	0.8
9	Channel Unbalance (L&R) 1kH	z dB	±1	±3
10	Minimum Vol Hum (UNWGTD/WGTD)	mV	5	8
	Maximium Vol Hum (UNWGTD/WGTD)	mV	8	15
	S/N (UNWGTD/CCIR-ARM2K) (L&R) 1kH	z dB	60	55
	Bass Effect FL, FR	dB	±10	±4
14	Ttreble Effect FL, FR	dB	±10	±4
15	Middle Effect FL, FR	dB	±10	±4
-	Separation (FL & FR)	dB	-	45
_	Crosstalk For Input (AUX/CD-REF) W/BPF	dB	-	45
	IARKS: Level Matching			
	CD -10dB	REF		
	AM 55% 5mV			±3
	FM 40kHz 1mV			±3
	AUX IN 750mV NOTE: All measurement should be done at bypass mode without EQ eff.	ects.		±3

5

More audio prologic: on

ITEM 1,2,3,4 Set up Subwoofer as off Speaker as large.

ELECTRICAL PARTS LIST

Ref. No.	Description	Mfr's Part No.	Qtv.
PCB		1	12.7.
OUTPUT PCB	PCB STS61AAST-01-03 282x94x1.6mm (94HB)	033-STS61A-102	1
DISPLAY & KEY PCB	PCB STS61AAST-01-02 179x169x1.6mm/3 (94HB)	033-STS61A-101	1
RECTIFIER PCB	PCB STS61AAST-01-04 150x140x1.6mm (94V0)	033-STS61A-103	1
MPEG+SERVO PCB	PCB STS21AAST-01-02 150x120x1.6mm (FR4)	033-STS21A-101	1
LOAD MOTOR PCB	PCB STS21AAST-01-09 171x88.5x1.6mm/12 (94V0)	033-STS21A-108	1
SCART PCB	PCB STS21AAST-01-05 140x95x1.6mm/4 (94V0)	033-STS21A-104	1
TUNER PCB	PCB STS21AAST-01-04 141x130x1.6mm/3 (94V0)	033-STS21A-103	1
SUB-WOOFER AMPLIFIER PCB	PCB SWT1-01-01,02,03 (94V0)	033-00SWT1-600	1
CONNECTION PCB	PCB SWT1-01-04 (94V0)	033-00SWT1-600	'
SUB-WOOFER RECTIFIER PCB	PCB SWT1-01-05 (94V0)	033-00SWT1-600	'
LED PCB	PCB SWT1-01-06 (94V0)		
SHIELDING PCB		033-00SWT1-600	1
ACCESSORY PORTION	PCB SWT1-01-07 200x86x0.8mm (94HB)	033-00SWT1-100	1
ACCESSORT PORTION	DIA CONTROL HANDSET (AVAILBY DOAGONAGE)	010 015 110 051	
	RM CONTROL HANDSET (AKAI/DV-R3100/3110/	043-R15448-051	1
İ	3300SS) w/CAM0122 SPY(FOR STS25/61)		
	FFC CABLE 22 PINS L=158mm 4+150+4 P:1mm	040-220158-100	1
	UL2896 0.035x0.7		
	JP WIRE AWG26#UL1007 1500mm BLK CRIMPED	054-010A50-090	1
	w/TERMINAL SHS #STV8-TE AND TUBE (75ohm)		
	AV CABLE 1.5M COAXIAL BK CABLE w/3 RCA	122-004220-151	1
	PLUG RED,WHT,YEL #3C RCA&RCA-1500BK		
	SCART CABLE 2000mm w/3 PIN RCA HS02038-20-20	122-00A020-200	1
	BATTERY #GP15G 1.5V 'AA' SIZE (GP)	130-615004-001	2
	MERCURY & CADMIUM FREE (2PCS/PACKAGE)		
	AM LOOP ANT.388-88 & 388-89 MOLD BK (ABS)	132-020388-882	1
	5264-2 2.54mm w/5750mm BK AWG26#UL1007		
AUX-IN (2.1CH) PORTION			
RESISTORS			
R517,518,523,524,609	*CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W)	001-010351-016	5
R561,563	*CdF RESISTOR 100 Kohm +-5% 1/16W (1/8W)	001-010451-016	2
R513,514	RESISTOR 18 Kohm +-5% 1/16W (1/8W)	001-018351-016	2
R515,516,521,527,528,562	*CdF RESISTOR 22 Kohm +-5% 1/16W (1/8W)	001-022351-016	6
R525,526	RESISTOR 220 Kohm +-5% 1/16W (1/8W)	001-022451-016	2
R519,520	RESISTOR 27 Kohm +-5% 1/16W (1/8W)	001-027351-016	2
R541	*CdF RESISTOR 33 Kohm +-5% 1/16W (1/8W)	001-033351-016	1
R529.530.558.559	*CdF RESISTOR 4.7 Kohm +-5% 1/16W (1/8W)	001-047251-016	4
R501,502,503,504,505,506	*CdF RESISTOR 47 Kohm +-5% 1/16W (1/8W)	001-047351-016	6
R507,508,509,510,511,512	RESISTOR 8.2 Kohm +-5% 1/16W (1/8W)	001-082251-016	6
CAPACITORS	The state of the s	001-002231-010	
C501.502	CERAMIC CAP 100 pF/50V +-10%	003-010110-050	2
C584	CERAMIC CAP 0.002 uF/50V +80%-20%	003-020280-050	1
C511,512	CERAMIC CAP 220 pF/50V +-10%	003-020280-050	1 1
C503,504,505,506,507,508,513,	•		2
	ELECT CAP 4.7 MFD/50V +-20% (5x11)	006-004000-50D	11
514,515,517,518 C516,525	E. E		
	ELECT CAP 10 MFD/50V +-20% (5x11)	006-010000-50D	2
C509	*CdF ELECT CAP 47 MFD/16V +-20% (5x11)	006-047000-16D	1
C570	ELECT CAP 470 MFD/16V +-20% (10x12.5)	006-047100-16D	1
TRANSISTORS	I		
Q501,502	TRLNPNSST-TAP&TO-092 3DG1815	008-618150-000	2
INTEGRATED CIRCUIT	T		
IC502	IC BA4558N O.AMP	010-404558-000	1
DIODE			
ZD601	ZENER BZX55C6V8CECCL, 6.8V, 1/2W (ROHM)	011-010068-120	1
	SGS-THOMSON		

Ref. No.	Description	Mfr's Part No.	Qty.
SWITCH			
SW501	SLIDE SW 1P2T SS12F47G9	025-120091-003	1
INDUCTORS			
FB501,502,503	*CdF FERRITE BEAD INDUCTOR #BL01RN1-A62	032-101162-000	3
	0.45 uH/7A (5x3.6mm) (87-008-372-01)		
MISCELLANEOUS			
JK501	PIN JACK HSP-253V-14 (KUNMING)	118-020253-000	1
	YELLOW,RED,WHITE/BODY WHITE		
WH501	FFC CONN 6232 22 PINS w/o LOCK PITCH:1mm	135-006232-220	1
	00 6232 022 006 800 VERTICAL TYPE		
VOLUME PORTION			
RESISTORS			
R1604	*CdF RESISTOR 10 ohm +-5% 1/16W (1/8W)	001-010051-016	1
R610,1693,1694, J290	*CdF RESISTOR 1 Kohm +-5% 1/16W (1/8W)	001-010251-016	4
R570,571,1691,1692	*CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W)	001-010351-016	4
R645,646,647	*CdF RESISTOR 150 ohm +-5% 1/16W (1/8W)	001-015151-016	3
R1702,1703	*CdF RESISTOR 22 ohm +-5% 1/16W (1/8W)	001-022051-016	2
R1650,1651,1663,1665,1671,1673		001-022251-016	6
R1618,1619,1624,1625,1626,	*CdF RESISTOR 22 Kohm +-5% 1/16W (1/8W)	001-022351-016	12
1627,1634,1635,1664,1666,1672,			
1674			
R1661,1675	*CdF RESISTOR 3.3 Kohm +-5% 1/16W (1/8W)	001-033251-016	2
R1701	*CdF RESISTOR 4.7 Kohm +-5% 1/16W (1/8W)	001-047251-016	1
R1649	RESISTOR 56 ohm +-5% 1/16W (1/8W)	001-056051-016	1
R1662,1676	RESISTOR 6.2 Kohm +-5% 1/16W (1/8W)	001-062251-016	2
R1695,1696,1698,1699	RESISTOR 68K +-5% 1/16W (1/8W)	001-068351-016	4
CAPACITORS	I		
	CERAMIC CAP 0.002 uF/50V +80%-20%	003-020280-050	5
C1660,1680	#MYLAR CAP 0.01 uF/100V +-10%	004-010310-100	2
C1661,1663,1681,1682	#MYLAR CAP 0.1 uF/50V +-10%	004-010410-050	4
C1662,1679	#MYLAR CAP 0.015 uF/100V +-5%	004-015350-100	2
C1664,1678	#MYLAR CAP 0.0022 uF/100V +-10%	004-022210-100	2
C1614,1615,1626,1627,1638,	ELECT CAP 1 MFD/50V +-20% (5x11)	006-001000-50D	17
1639,1665,1666,1667,1668,1669,			
1670,1671,1672,1674,1675,1676			
C1673,1677	ELECT CAP 10 MFD/50V +-20% (5x11)	006-010000-50D	2
C315,653,655	ELECT CAP 100 MFD/16V +-20% (5x11)	006-010100-16D	3
C1658	ELECT CAP 470 MFD/16V +-20% (10x12.5)	006-047100-16D	1
TRANSISTORS	I-out the second		
Q522,523,1606,1607,1608,1609,	TRLNPNSST-TAP&TO-092 3DG1815	008-618150-000	10
1610,1611,1612,1617			
Q1616	TRLPNPPWR-TAP&TO-092 3CA8550	008-685500-000	1
Q605	TR NPNSST-RAD&SC-072 DTC114ES (ROHM)	008-801141-000	1
Q521	TR NPNSST-RAD&SC-072 DTA114TS/A (ROHM)	008-801142-000	1
04500	KRA-111M (KEC)		
Q1603	TR PNPSST-BUK&SC-072 DTA114YSTP/DTA114YS	008-801144-000	1
INTEGRATED CIRCUIT	LOUDIOUS VELOCIONED DESCRIPTION O VOCA		
10004	ICAUDIOLEVELSENSOR PT2322-S (SOP)	010-142322-000	1
DIODER	6-CHANNEL AUDIO PROCESSOR (ANGUS)		
DIODES	I		
D501,1619,1620,1621,1622,1623,	DIODE IN-4148 ROHM/TELEFUNKEN TAP**50	011-004148-000	12
1624,1625,1626,1627,1628,1629	KEL(NS)(TAP:52mm)/NS(FAIRCHILD)/SEMTECH	L	
WIRES	Linuage Augustiana a		,
	JP WIRE AWG26#1007 3x3mm 100mm BLACK	051-673100-009	1
	JP WIRE AWG26#1007 3x3mm 150mm BLACK	051-673150-009	1

Ref. No.	Description	Mfr's Part No.	Qty.
A' B'	JP WIRE AWG26#1007 5x5mm 220mm BLACK	051-675220-009	2
	JP WIRE AWG26#1007 5x5mm 280mm BLACK	051-675280-009	1
MISCELLANEOUS			
JK505	MINI DIN SOCKET MDSL-09SC0A (LEOCO)	119-000090-000	1
	RELAY 12V 200mW ME-1-12BS 1P2T	128-120112-001	1
RL501		128-120212-001	1
WH502	*CdF HEADER CTL 8 PINS PHS-08 PITCH 2mm	135-PHS080-080	1
	STRAIGHT TYPE WHT COLOR (MARKING:HR)		
CPU PORTION	*CdF SOLDERING LUG	137-300000-000	2
RESISTORS			
R301,302,303,304,305,306,307,	*CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W)	001-010351-016	35
308,309,316,318,319,321,322,	Sur (1844)	001-010351-016	35
330,331,333,334,337,338,339,			
342,343,344,345,346,347,350,			
361,364,384,398,399,400,401			
R348	*CdF RESISTOR 15 Kohm +-5% 1/16W (1/8W)	001-015351-016	
R313,314,315	*CdF RESISTOR 220 ohm +-5% 1/16W (1/8W)	001-015351-016	1 3
R325	*CdF RESISTOR 2.2 Kohm +-5% 1/16W (1/8W)		1
R340,341	*CdF RESISTOR 22 Kohm +-5% 1/16W (1/8W)	001-022251-016 001-022351-016	2
R402.403	RESISTOR 27 Kohm +-5% 1/16W (1/8W)	001-027351-016	2
R332,335,336	*CdF RESISTOR 33 ohm +-5% 1/16W (1/8W)	001-027351-016	3
R326,385,391	*CdF RESISTOR 4.7 Kohm +-5% 1/16W (1/8W)	001-033051-016	3
R560,564	RESISTOR 5.6 Kohm +-5% 1/16W (1/8W)	001-056251-016	2
R324	RESISTOR 8.2 Kohm +-5% 1/16W (1/8W)	001-082251-016	1
CAPACITORS	The state of the s	001-002231-010	<u>'</u>
C302	CERAMIC CAP 0.02 uF/50V +80%-20%	003-020380-050	1
C307,308	CERAMIC CAP 68 pF/50V +-10%	003-068010-050	2
C305,306	CERAMIC CAP 30 pF/50V +-5% (NPO)	003-430050-050	2
	(CC45-CH1H300J/RBU04CH300J-L)	003-430030-030	'
C309	ELECT CAP 4.7 MFD/50V +-20% (5x11)	006-004000-50D	,
C301	ELECT CAP 47000 MFD/5.5V DC +80-20%	006-747300-05C	1
	(STAR CAP) (SC-DA5R5 473 H)	000-747300-050	1
TRANSISTORS	(6770 674) (66 67616 47611)		
Q301	TR NPNSST-&&&&&& 3DG1417	008-601417-000	1
Q302	TR NPNSST-RAD&SC-072 DTC114ES (ROHM)	008-801141-000	1
INTEGRATED CIRCUITS	The state of the s	000-001141-000	
IC302	IC 74HC373(SOL)/SN74HC373D/DW TC74HC373AF	010-070373-000	1
IC301	ICMCU-48K-LCD TMP87EP26F-3D72	010-918726-000	1
	(ALDIAUS-DVD32) FLASH MCU		
DIODES			
D301,302,303,304	DIODE IN-4148 ROHM/TELEFUNKEN TAP**50	011-004148-000	4
	KEL(NS)(TAP:52mm)/NS(FAIRCHILD)/SEMTECH		
RESONATOR			
CX301	CERAMIC RESONATOR 8 MHz CSA 8.00 MTZ	020-000800-000	1
	(MURATA) (87-A70-120-08C)		
MISCELLANEOUS			
	FERRITE CORE B15 UH 26x30x13 (LF-130)	032-226030-013	1
	OD:26mm ID:13mm T=30mm		
R385 TO R390	JP WIRE AWG28#1007 4x4mm 40mm BLACK	051-874040-009	1
JK502	PIN JACK BOARD MSP-244V1-34 NI YEL,ORN,	118-020244-000	1
	WHT,RED		
JK503	DIN JACK HDC-056 (KUNMING)	119-000056-000	1
WH305	*CdF HEADER CTL 3 PINS PHS-03 PITCH 2mm	135-PHS030-030	1
	STRAIGHT TYPE WHT COLOR (MARKING:HR)		

Ref. No.	Description	Mfr's Part No.	Qty.
WH301,302,304	HEADER CTL 10 PINS PHS-10 PITCH 2mm	135-PHS100-100	3
	STRAIGHT TYPE WHT COLOR (MARKING:HR)		
WH303	HSG (2.54mm) MOLEX 5264-06 TO JST 6P-SAN	136-KZ0626-000	1
	w/260mm R,BK,Y,OR,GR,BL AWG28#UL1007		1
FRONT PANEL PORTION			
RESISTORS			
R367,368,369,375,376,377,378	*CdF RESISTOR 100 ohm +-5% 1/16W (1/8W)	001-010151-016	7
R358	*CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W)	001-010351-016	1
R354	*CdF RESISTOR 1.5K +-5% 1/16W (1/8W)	001-015251-016	1
R373	*CdF RESISTOR 220 ohm +-5% 1/16W (1/8W)	001-022151-016	1
R355	*CdF RESISTOR 2.2 Kohm +-5% 1/16W (1/8W)	001-022251-016	1
R353	*CdF RESISTOR 22 Kohm +-5% 1/16W (1/8W)	001-022351-016	1
R356	*CdF RESISTOR 3.3 Kohm +-5% 1/16W (1/8W)	001-033251-016	1
R359	*CdF RESISTOR 33 Kohm +-5% 1/16W (1/8W)	001-033351-016	1
R370	RESISTOR 390 ohm +-5% 1/16W (1/8W)	001-039151-016	1
R352,372	*CdF RESISTOR 4.7 Kohm +-5% 1/16W (1/8W)	001-047251-016	2
R351	*CdF RESISTOR 47 Kohm +-5% 1/16W (1/8W)	001-047351-016	1
R379	RESISTOR 51 Kohm ←5% 1/16W (1/8W)	001-051351-016	1
R357	RESISTOR 5.6 Kohm +-5% 1/16W (1/8W)	001-056251-016	1
R383	RESISTOR 68 ohm +-5% 1/16W (1/8W)	001-068051-016	1
CAPACITORS			
C312	CERAMIC CAP 0.001 uF/50V +80%-20%	003-010280-050	1
C311	CERAMIC CAP 0.1 uF/16V +80%-20%	003-010480-016	1
C310	ELECT CAP 47 MFD/10V +-20% (SMALL SIZE) (5x7)	006-147000-10D	1
INTEGRATED CIRCUIT			
IC304	ICDISPLAYDRIVER-VFD PT6311/PT6318 (ANGUS)	010-146311-001	1
	TP6311Q		
SWITCHES			
SW301,302,303,304,305,306,307,	TACT SWITCH 4P 5mm 100G #1102A-4/	021-110200-002	9
309,311	EVQ PAC 05R (=021-KHH901-000)		
WIRES	-		
	JP WIRE AWG26#1007 3x3mm 160mm BLACK	051-673160-009	1
	HSG CD363-4A PIN JST PHR 2mm w/250mm RED	136-040363-200	1
	BLK,WHT,BLUE JP AWG28#1007 SLDG 4mm		
	HSG CD668R-10 JST PHR 2mm WITH 250mm RED	136-100668-200	1
	BK,W,Y,BL,OR,R,BK,W,Y AWG28#1095 SLDG4mm		
MISCELLANEOUS	· · · · · · · · · · · · · · · · · · ·		
LED302,303,304	LED-G-2X5M-N-&&&-&&& SE-6221AT 2x5mm	110-003421-205	3
	GREEN, 21mm LEAD		
LED301	LED-G-2X5&-S-&&&-&&& W25319GSC 2x5mm	110-253191-215	1
	GREEN SUPER BRIGHT		
SR301	REMOTE/CONTROL PHOTO RECEIVER	111-007138-000	1
	ROHM/RPM7138-V4		
VFD301	VFD-2COL100x20.5SM-033P VACUUM	115-001002-000	1
	FLUORESCENT DISPLAY #VFD20-1002 (ZEC)		
	*CdF SOLDERING LUG	137-300000-000	1
LINEAR PORTION			
RESISTORS	1		
R822	*CdF RESISTOR 10 ohm +-5% 1/16W (1/8W)	001-010051-016	1
R828	*CdF RESISTOR 1 Kohm +-5% 1/16W (1/8W)	001-010251-016	1
R805,807,808,812,813,814,817,	*CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W)	001-010351-016	10
818,830,843			
R820	*CdF RESISTOR 100 Kohm +-5% 1/16W (1/8W)	001-010451-016	1
R811	RESISTOR 1.8 Kohm +-5% 1/16W (1/8W)	001-018251-016	1
R802,815	*CdF RESISTOR 220 ohm +-5% 1/16W (1/8W)	001-022151-016	2

Ref. No.	Description	Mfr's Part No.	Qty.
R803	*CdF RESISTOR 22 Kohm +-5% 1/16W (1/8W)	001-022351-016	1
R821,823,825	*CdF RESISTOR 33 ohm +-5% 1/16W (1/8W)	001-033051-016	3
R804,816,826,827	*CdF RESISTOR 470 ohm +-5% 1/16W (1/8W)	001-047151-016	4
R801,819,844	*CdF RESISTOR 4.7 Kohm +-5% 1/16W (1/8W)	001-047251-016	3
R809,829	RESISTOR 5.6 Kohm +-5% 1/16W (1/8W)	001-056251-016	2
R810	RESISTOR 680 ohm +-5% 1/16W (1/8W)	001-068151-016	1
CAPACITROS			
C815,816	CERAMIC CAP 0.1 uF/16V +80%-20%	003-010480-016	2
C801,802,803,804,805,806,807,	CERAMIC CAP 0.02 uF/50V +80%-20%	003-020380-050	20
808,810,812,814,818,821,826,			
829,831,833,835,837,845			
C843.844	ELECT CAP 4.7 MFD/50V +-20% (5x11)	006-004000-50D	2
C827,840,848,851,852,854	ELECT CAP 10 MFD/50V +-20% (5x11)	006-010000-50D	6
C817	ELECT CAP 100 MFD/25V +-20% (6.3x11)	006-010100-25D	1
C813	ELECT CAP 100 MFD/35V +-20% (8x11.5)	006-010100-35D	1
C846,849,853	ELECT CAP 1000 MFD/10V +-20% (10x16)	006-010200-10D	3
C820,832,838	ELECT CAP 220 MFD/16V +-20% (8x11.5)	006-022100-16D	3
C834,839	ELECT CAP 220 MFD/25V +-20% (8x11.5)	006-022100-16D	2
C830	ELECT CAP 2200 MFD/10V +-20% (0X/12.5x20)	006-022100-23D	1
C809,825	ELECT CAP 2200 MFD/16V +-20% (VX/12.5x25)	006-022200-10C	2
C811	ELECT CAP 2200 MPD/18V +-20% (12.5x25) ELECT CAP 3300 MFD/25V +-20% (16x31.5)		
C819,836	*CdF ELECT CAP 47 MFD/16V +-20% (5x11)	006-033200-25D	1
C847		006-047000-16D	2
C850	ELECT CAP 47 MFD/25V +-20% (5x11)	006-047000-25D	1
	ELECT CAP 470 MFD/10V +-20% (8x11.5)	006-047100-10D	1
TRANSISTORS	T		_
Q807,815	TR PNPSST-RAD&SC-043 2SA1015-GR TOSHIBA	008-110150-000	2
Q806,814	(F008-211850-005) TRANSISTOR 2SB1566E/F (ROHM)	008-201566-000	2
Q801,805,813	TRLNPNSST-TAP&TO-092 3DG1815	008-618150-000	3
Q808	TRLNPNPWR-TAP&TO-092 3DA8050	008-680500-000	1
Q809	TRLPNPPWR-TAP&TO-092 3CA8550	008-685500-000	1
Q804,812	TR PNPGEN-TAP&SC-072 DTA123ESA (ROHM)	008-800123-003	2
	(88-WA2-662-08)		
Q802,803,811	TR NPNSST-RAD&SC-072 DTC114ES (ROHM)	008-801141-000	3
INTEGRATED CIRCUITS			
IC801	(F010-207805-001) TR &&&VOL-REG&TO-092	008-V07805-000	1
	LM78L05ACZ 5V VOLTAGE REGULATOR		1
IC802,803	ICREGULA-P-005V001A BA05ST (ROHM)	010-400005-002	2
DIODES			
D810,811,815,816,817,818,822,	DIODE IN-4148 ROHM/TELEFUNKEN TAP**50	011-004148-000	8
823	KEL(NS)(TAP:52mm)/NS(FAIRCHILD)/SEMTECH		
DZ801	ZENER DIODE #MTZJT-7224D 24V 1/2W	011-010024-120	1
DZ802	ZENER IN-5231B, HZ5C1, 5.1V, 1/2W	011-010051-120	1
DZ807	ZENER DIODE 6.2V #MTZJ6.2C	011-010062-005	1
DZ803,804,806	ZENER DIODE 10V #MTZJ10D 1/2W (ROHM)	011-010100-122	3
D809,819,820,821,824,825,826,	RECTIFIER IN-4001B	011-024001-000	9
827,828			1
D801,802,803,804	(F011-005401-000) RECTIFIER IN-5401BL	011-025401-000	4
D805,806,807,808	RECTIFIER IN5822	011-025822-000	4
SWITCH		,	
	PUSH SWITCH 2P2T PS3-22SP-W4CW-3.2	021-032222-000	1
	w/UL.VDE SEMKO APPROVAL (LUP FUNG)	VZ. USZZZZ-V00	Ι΄.
INDUCTOR	Invalidation (NOTAL (LOF FORD)		
L601	*CdF FERRITE BEAD INDUCTOR #BL01RN1-A62	032-101162-000	1
, 	0.45 uH/7A (5x3.6mm) (87-008-372-01)	032-101102-000	'
MISCELLANEOUS	[a. ta di a. t. (a. a. a		L

Ref. No.	Description	Mfr's Part No.	Ohi
	PT003WEI35/14&&&WEN& 230V:12.4V EN STD		Qty.
1 4	WO FUSE (P3512-A14E)	123-A33032-100) ')
	PT035WEI57/35&F&WVDE 230V:8V/13V/22V/	123-D53521-400	1
1 4	4.2V w/FUSE 130°C (L5735-P01E)	123-033321-400	'
F804,805	MICRO FUSE #251.630 630mA/125V WFF-215.630	124-006310-000	2
I			2
FS802,803	(CULN/DE/SEMKO/BSI APP.)	124-025020-001	2
RL801 /	RELAY 9V SDT-S-109LMR	128-090109-000	
			1
Δ.	2250mm MIGRATION (HARVEST)	134-B11331-006	1
CN806	1	105 005007 010	
CNBOO	*CdF HEADER MOLEX 4 PINS 5267-04A PITCH 2.5mm STRAIGHT TYPE	135-005267-040	1
CN801	HEADER MOLEX 5 PINS 5267-05A PITCH 2.5mm	405 005007 050	1
CNOOT	STRAIGHT TYPE	135-005267-050	'
CN803			1 . 1
CN803	PIN HEADER 2 PINS TJC6-02P3 PITCH:7.92mm	135-00TJC6-020	1
WH803	VERTICAL 1.14mm SQUARE PIN		
WH603	HEADER CTL 4 PINS PHS-04 PITCH 2mm	135-PHS040-040	1
WIRES	STRAIGHT TYPE WHT COLOR (MARKING:HR)		
TH3 TO C813+	ID WIDE AWOOD S.	054 075400 000	
CN805 TO WH502	JP WIRE AWG26#1007 5x5mm 180mm BLACK	051-675180-009	1
CN605 TO WH502	HSG (2mm) JST PHR-08 TO 8P-SAN w/180mm RED,BLACKx7 AWG26#UL1007	136-F00818-001	1
WH801		400 140005 004	
WHOUT	HSG (2.5mm) PEC 2507H-09 TO 2501H-09	136-J10935-001	1
MDEC : SERVO DORTION	w/350mm WHITE,GREYx8 AWG24#UL1007		
MPEG+SERVO PORTION RESISTORS			
R10,12,230	CHIP DECISTOR 40 -b- + 50/ 4/40/M (0000MC00)	004 040050 040	
R1,109,132	CHIP RESISTOR 10 ohm +-5% 1/16W (0603/1608)	001-310052-016	3
R14,29,39,58,100,101,120,153,	CHIP RESISTOR 100 ohm +-5% 1/16W (0603/1608) CHIP RESISTOR 0 ohm +-5% 1/16W (0603/1608)	001-310152-016	3
	CHIP RESISTOR 0 0nm +-5% 1/16W (0603/1608)	001-300052-016	19
177,227,229,234,236,237,241, 243, FB18,19,20			.
R9,11,97,106,107,122,134,135,	CHID DECISTOR 4 Value 4 ES/ 4/45/M (0000/4600)	004 040050 040	
232	CHIP RESISTOR 1 Kohm +-5% 1/16W (0603/1608)	001-310252-016	9
R5,6,19,20,21,22,23,56,95,102,	CHIE DECIDED 40 K-b 1 50/ 4/40/1/ (0000/4000)	*** *****	
	CHIP RESISTOR 10 Kohm +-5% 1/16W (0603/1608)	001-310352-016	26
123,124,126,130,131,141,142,143,			
144,145,146,147,148,157,163,200 R31,47,48,91,94,201,202,203,204	CHIP DECIDED 400 K-1 4 504 4440W (000044000)		
R32,33,34,35	CHIP RESISTOR 100 Kohm +-5% 1/16W (0603/1608)	001-310452-016	9
	CHIP RESISTOR 1 ohm +-5% 1/16W (0603/1608)	001-310852-016	4
R180,183,188,191,194,197	CHIP RESISTOR 12 Kohm +-5% 1/16W (0603/1608)	001-312352-016	6
R125,218,219	CHIP RESISTOR 180 ohm +-5% 1/16W (0603/1608)	001-318152-016	3
R208,209,212,213,216,217 R164	CHIP RESISTOR 2 Kohm +-5% 1/16W (0603/1608)	001-320252-016	6
	CHIP RESISTOR 22 ohm +-5% 1/16W (0603/1608)	001-322052-016	1
R15,16,206,207,210,211,214,215 R223	CHIP RESISTOR 220 ohm +-5% 1/16W (0603/1608)	001-322152-016	8
	CHIP RESISTOR 2.2 Kohm +-5% 1/16W (0603/1608)	001-322252-016	1
R24,25,26,30,50,105	CHIP RESISTOR 22 Kohm +-5% 1/16W (0603/1608)	001-322352-016	6
R231	CHIP RESISTOR 2.4 Kohm +-5% 1/16W (0603/1608)	001-324252-016	1
R182,185,190,193,196,199	CHIP RESISTOR 30 Kohm +-1% 1/16W (0603/1608)	001-330312-016	6
R59,65,66,67,68,69,70,71,73,74,	CHIP RESISTOR 33 ohm +-5% 1/16W (0603/1608)	001-333052-016	26
75,77,79,80,110,111,127,128,165,			
166,167,168,169,170,171,175			
R129,224	CHIP RESISTOR 330 ohm +-5% 1/16W (0603/1608)	001-333152-016	2
R3,4,52,53,54,55,60,181,184,192,	CHIP RESISTOR 3.3 Kohm +-5% 1/16W (0603/1608)	001-333252-016	13
195,198			
R155	CHIP RESISTOR 392 ohm +-1% 1/16W (0603/1608)	001-339112-016	1
R13,205	CHIP RESISTOR 470 ohm +-5% 1/16W (0603/1608)	001-347152-016	2

Ref. No.	Description	Mfr's Part No.	Qty
R17,18,43,45,61,96,104,112,113,	CHIP RESISTOR 4.7 Kohm +-5% 1/16W (0603/1608)	001-347252-016	19
114,115,116,117,118,119,133,			
139,140,174			
R27,51,57,76,93,98,137,138,154	CHIP RESISTOR 47 Kohm +-5% 1/16W	001-347352-016	9
	(0603/1608) (MCR03EZHJ-473)		
R222	CHIP RESISTOR 470 Kohm +-5% 1/16W (0603/1608)	001-347452-016	1
R136	CHIP RESISTOR 5.6 Kohm +-5% 1/16W (0603/1608)	001-356252-016	1
R186,187	CHIP RESISTOR 68 ohm +-5% 1/16W	001-368052-016	2
	(0603/1608) (TSB#G5101100Y101)		
R158,159,160,161	CHIP RESISTOR 75 ohm +-1% 1/16W	001-375012-016	4
	(0603/1608) (TSB#G5101104G105)		l
R149,162	CHIP RESISTOR 75 ohm +-5% 1/16W (0603/1608)	001-375052-016	2
R8	CHIP RESISTOR 8.2 Kohm +-5% 1/16W (0603/1608)	001-382252-016	1
R225	CHIP RESISTOR 91 ohm +-5% 1/16W (0603/1608)	001-391052-016	1
CAPACITORS		<u> </u>	
C11,16,39,44,52,53	CHIP CAP 0.001 uF/25V +-10% (0603/1608)	003-510212-025	6
	(GRM39B102K50) (MURATA)		
C112	CHIP CAP 0.01 uF/25V +-10% (0603/1608)	003-510312-025	1
	(MCH185C103KK/GRM39X7R103K25PT)		ľ
C135,137,141,143,147,149	CHIP CAP 0.0022 uF/50V +-10% (0603/1608)	003-522212-050	6
	(UMK107B222KZ-TM)	000 0222 12 000	ľ
C66	CHIP CAP 0.022 uF/25V +-10% (0603/1608)	003-522312-025	١,
	(MCH182C223KK/GRM39X7R223K25PT)	000-022012-020	'
C2,8,9,10,14,15,21,22,23,24,25,	CHIP CAP 0.1 uF/16V +-10% (0603/1608)	003-510412-016	94
26,27,28,29,30,31,32,33,34,35,36		003-310412-016	"
37,38,40,41,42,43,49,50,51,54,55			
56,59,62,63,64,65,68,69,71,72,73	1		
74,75,78,79,80,82,84,85,86,87,92	5 1 1		
95,96,97,98,99,100,101,102,103,			
104,105,106,107,108,113,114,115			
117,118,119,120,121,122,123,124			
128,129,130,133,134,139,140,145	1		ĺ
146,151,152,153,166,171	`		l
C83	CHIP CAP 0 22 E/46 V 100 200/ (0002/4008)		Ι.
C144	CHIP CAP 0.22 uF/16V +80-20% (0603/1608) CHIP CAP 0.033 uF/25V +-10% (0603/1608)	003-522482-016	1
C17.47		003-533312-025	1
C48	CHIP CAP 0.047 uF/25V +-10% (0603/1608)	003-547312-025	2
C46	CHIP CAP 0.47 uF/16V +80-20% (0603/1608)	003-547482-016	1
04.4.5.8.7	(EMK107F474ZA)		
C1,4,5,6,7 C12	CHIP CAP 680 pF/50V +-10% (0603/1608)	003-568112-050	5
C3,13,131,132	CHIP CAP 0.0068 uF/50V +-10% (0603/1608)	003-568212-050	1
C3,13,131,132	(F003-610112-050) CHIP CAP 100 pF/50V	003-610152-050	4
057.50.07	+-5% NPO (0603/1608)		
C57,58,67	CHIP CAP 12 pF/50V +-5% NPO (0603/1608)	003-612052-050	3
C136,138,142,148,150	CHIP CAP 150 pF/50V +-5% NPO (0603/1608)	003-615152-050	5
000 00 00 04 445 455 455 455	(GRM39COG151J50PT/MCH185A151JK)		
C88,89,90,91,116,156,159,162	(F003-622051-050) CHIP CAP 22 pF/50V	003-622052-050	9
165	+-5% NPO (0603/1608)(GRM39C0G220J50PT)		
C111	CHIP CAP 220 pF/50V +-5% NPO (0603/1608)	003-622152-050	1
	(UMK107CH221JZ-T)		
C109,110	(F003-527012-050) CHIP CAP 27 pF/50V	003-627052-050	2
	+-5% NPO (0603/1608) (UMK107CH270JZ-TM)		
C154,157,160,163	CHIP CAP 270 pF/50V +-5% NPO (0603/1608)	003-627152-050	4
R2	CHIP CAP 33 pF/50V +-5% NPO (0603/1608)	003-633052-050	1
	(GRM39COG330J50PT/MCH185A330JK)		
C70	CHIP CAP 47 pF/50V +-5% NPO (0603/1608)	003-647052-050	1

Ref. No.	Description	Mfr's Part No.	Qty.
C155,158,161,164	(F003-633151-050) CHIP CAP 330 pF/50V	003-633152-050	4
	+-5% NPO (0603/1608) (GRM39C0G331J50PT)		
C45,46	CHIP CAP 470 pF/50V +-5% NPO (0603/1608)	003-647152-050	2
CE39,40	ELECT CAP 4.7 MFD/50V +-20% (5x11)	006-004000-50D	2
CE13,18,22,24,E25,26,29,30,31,	ELECT CAP 10 MFD/50V +-20% (5x11)	006-010000-50D	16
32,33,34,35,36,37,38	,	000 0,0000 000	"
CE5,6,27,28,45	ELECT CAP 100 MFD/16V +-20% (5x11)	006-010100-16D	5
CE16	*CdF ELECT CAP 1000 MFD/10V +-20% (VX/10x12)	008-010200-10C	1
CE41	ELECT CAP 220 MFD/16V +-20% (6.3x11)	006-022101-16D	1
	(SA16V221M)	000-022101-100	'
CE3 .15.42.44	ELECT CAP 47 MFD/25V +-20% (5x11)	006-047000-25D	4
CE14	ELECT CAP 470 MFD/10V +-20% (8x11.5)		
CE4,8	ELECT CAP 470 MFD/16V +-20% (8X11.5)	006-047100-10D	1
CE49,51,52,53,54	,	006-047100-16C	2
TRANSISTORS	ELECT CAP 100 MFD/6.3V +-20% (SMALL SIZE) (5x7)	006-210100-06D	5
Q4,7,8,9,10,11,12	TTD VIDIOTIVE TO COMPANY		
	TR NPNGEN-BUK&SC-043 2N3904	008-939040-000	7
Q5,6	TR NPNGEN-BUK&SC-043 2N3906	008-939060-000	2
Q3	CHIP TRANSISTOR DTC124TKA-TLB	008-A00124-B00	1
Q1,2	TR PNPPWR-TAP&&S-MT& 2SB1197K-T146R	008-A01197-000	2
	(SMT) (ROHM)		
INTEGRATED CIRCUITS			
U7	ICMCU-512K-NIL W29EE512P-70 (WINBOND)	010-032951-001	1
U25	ICSPECIAL WM8739EDS 24BIT 96kHz	010-038739-000	1
	STEREO AUDIO ADC		
U31	ICSPECIAL WM8746EDS 32BIT 192KHz 6CH DAC	010-038746-000	1
	w/VOLUME CONTROL		
U9	IC-VOLTAGE REGULATOR XC61AN1902MR/	010-151902-000	1
	XC61CN1902MR		
U1	IC-RF AMP M5703T (SP3721AAA-OPM)	010-245703-000	1
	(64-PIN VQFP)		·
U5	IC&&&&&&&&&&&&&&&&&	010-245705-000	1
	CONTROLLER (176-PIN LQFP)	0.02.00.00	'
U22,23,24	ICAMP-OP-02CH-DUALV NJM4580E-T1	010-274580-002	3
	(TSB#G5147100L105)	010 21 4000 002	ľ
U17	ICRAMS-01X016M K4S161622D-TC/L60/L80	010-310416-002	1
	HY57V161610DTC-8/M12L16161A-7T	010-310410-002	'
บ3	ICREGULA-P-3.3V001A BA033FP(SOP) (ROHM)	010-400033-000	1
U29	ICREGULA-P-005V001A BA17805FP (TO252-3)	010-401780-000	1
020	(ROHM)	010-401780-000	'
U2	ICMOTORDRIVER-04CH BA5983FM (ROHM)	040 405000 000	
U12	ICRAMF-01X001K S-24C01BFJ-TB-01/	010-405983-000	1
012		010-512401-001	1
U27	24LC01BT-I/SN/M24C01-WMN6T/BR24C01AF-WE2		
027	ICREGULA-P-&&&V&&&A LD1117S/LM117MPX-ADJ	010-721117-000	1
Lian	RT9164CG(SOT-223) (ST/NATIONAL/RICHTEK)		
U28	ICREGULA-P-3.3V&&&A LD1117S33C/LM1117MPX	010-721117-001	1
	-3.3/RT9164-33CG (ST/NATIONAL/RICHTEK)		
U4	ICMOTORDRIVER-&&CH FAN8082 (FAIRCHILD)	010-748082-000	1
U26	ICLOGIC TC74HCU04AF-EL HEX INVERTER	010-847404-001	1
	(TSB#G51451014108)		
U11	ICDIALER-NON-00 ZR36705TQC (ZORAN)	010-893670-002	1
	ATAPI INTERFACE		
U13	ICRAMF-01X008M 8M BIT(512Kx16) FLASH RAM	010-993908-000	1
	SST39VF800A-70-4C-EK/SST39VF800-70-4C-EK		
U6	(F010-474116-000) IC-DRAM M11B416256A-35J	045-D00035-100	1
	(SOJ) (SW034)		

Ref. No.	Description	Mfr's Part No.	Qty.
U16	ICMPEG ZR36732PQC	010-893673-000	1
DIODES			
ZD1	ZENER DIODE 6.8V #MTZJ6.8B	011-010068-001	1
D10	RECTIFIER IN-4002,100V	011-024002-990	1
D1,2,3,4,5,6,7	CHIP DIODE (SMT) RLS4148 (ROHM)	011-044148-000	7
INDUCTORS			
L2,4,5,13	*CdF INDUCTOR 10 uH CEC-100K +-10%	018-010016-000	4
L26,27,28,29	C.COIL 1.8uH +-10% TAPE&REEL LK1608 1R8K-T/	018-040187-002	4
	MGFI1608C1R8/SDFL1608Q1R8KT		
L6	C.COIL 2.7 uH +-10% TAPE&REEL LK2125 2R7K-T/	018-040277-001	1
	MGFI2012C2R7/SDFL2012Q2R7KT		
FB1,2,3,4,5,6,7,8,9,10,11,12,13	FERRITE BEAD #BLM11A102S (MURATA)	032-111102-000	17
14,15,16,21			
CRYSTALS & RESONATOR			
Y3	CRYSTAL 12.5 MHz +-30ppm HC-49/U/ALCCBEG	009-612500-000	1
Y4	CRYSTAL 27 MHz HC-49/U/ALCCGBE	009-627000-003	1
Y1	RESONATOR 33.8688 MHz 30ppm-50ppm	020-338688-000	1
	ZTA33.86MX (CHEQUERS)	020-330000-000	'
WIRES	- Control (Control of the Control		
	FFC CABLE L=240mm P=1mm SEPH02-01960(3)	040-240240-100	1
	24P-4+232+4-P1-CF/90 UL2896 0.035x0.7	040-240240-100	l '
U2 GND TO U29 GND	*CdF JP WIRE AWG26#1007 3x3mm 70mm BLACK	054 677070 000	١.
13	HSG (2mm) JST PHR-05 TO PHR-05 w/258mm BR,	051-673070-009	1
33		136-C00525-800	1
J2	RED,ORN,YEL,GN AWG28#UL1095		
JZ	HSG (2mm) JST PHR-06 TO PHR-06 w/188mm BR,	136-C00618-800	1
MICOELL ANEQUIO	RED,ORN,YEL,GN,BL AWG28#UL1095		1
MISCELLANEOUS			
J5	HEADER MOLEX 6 PINS 5267-06A PITCH 2.5mm	135-005267-060	1
	STRAIGHT TYPE		
J10	FFC CONN 6232 22 PINS w/o LOCK PITCH:1mm	135-006232-220	1
	00 6232 022 006 800 VERTICAL TYPE		
J1	FFC CONNECTOR 24 PINS PITCH: 1mm LG BRAND	135-0GF106-240	1
	GF106-24S-LS HORIZONTAL UPPER CONTACT		
J6	HEADER 4 PINS PEC #2507-WS-4 PITCH 2.5mm	135-2507WS-040	1
	VERTICAL REPLACE:135-005267-040		
J9	HEADER 9 PINS PEC #2507-WS-9 PITCH 2.5mm	135-2507WS-090	1
	VERTICAL REPLACE:135-005267-090		
J3	HEADER CTL 5 PINS PHS-05 PITCH 2mm	135-PHS050-050	1
	STRAIGHT TYPE WHT COLOR (MARKING:HR)		
J2	*CdF HEADER CTL 6 PINS PHS-06 PITCH 2mm	135-PHS060-060	1
	STRAIGHT TYPE WHT COLOR (MARKING:HR)		
DVD MECHANISM - STS			
	DVD-FLC-01-SAMG-N DVD MECHANISM FOR CD-R	163-000216-000	1
	CMS-S21MG6 (SAMSUNG)	103-000210-000	١'
	LEAF SWITCH LS-121-0A (LUP FUNG)	022-001210-001	1
	CONN PIN 3 PINS (3.5+58+3.5) PITCH 2mm	050-030065-200	;
	UL AWG26#2651	030-030003-200	'
CN1		455 000411/5 050	
9111	(F135-2001WR-051) HEADER 5 PINS	135-2001WR-050	1
	#A2001WR2-05/2001-WR-5 P:2mm HORIZONTAL		
	MOTOR-DC-006V-NORMAL 6V #RF-500TB-12560	151-061256-000	1
	(MABUCHI) 10gm (KSM-2101-ABM-AL)		
RDS PORTION			
RESISTORS			
R458	CHIP RESISTOR 1 Kohm +-5% 1/16W (0603/1608)	001-310252-016	1
R471	CHIP RESISTOR 18 Kohm +-5% 1/16W (0603/1608)	001-318352-016	Ι.

Ref. No. Description Mfr's Part Nat (AS4, AS6) R454,456 CHIP RESISTOR 2.2 Khm +-5% 1/16W (0603/1608) 001-323265-20 (201-33345-20) R457 CHIP RESISTOR 308 Kohm +-5% 1/16W (0603/1608) 001-33345-20 (201-33345-20) R455 CHIP RESISTOR 470 Kohm +-5% 1/16W (0603/1608) 001-34745-20 (201-3456) R453 CHIP RESISTOR 560 chm +-5% 1/16W (0603/1608) 001-356152-0 (201-3456) CAPACITORS CHIP CAP 0.1 uF/16V +-10% (0603/1608) 003-510412-0 (201-346) C459 (CHIP CAP 0.1 uF/16V +-10% (0603/1608) 003-510412-0 (201-346) C454 (CHIP CAP 0.0022 uF/50V +-10% (0603/1608) 003-522212-0 (201-345) C456 CHIP CAP 0.047 uF/25V +-10% (0603/1608) 003-547312-0 (201-345) C456 CHIP CAP 0.022 uF/25V +-10% (0603/1608) 003-552112-0 (201-345) C456 CHIP CAP 560 pF/50V +-10% (0603/1608) 003-556112-0 (201-345) C450 CHIP CAP 560 pF/50V +-10% (0603/1608) 003-556112-0 (201-345) C451 CHIP CAP 30 pF/50V +-5% NPO (0603/1608) 003-630352-0 (201-345) C451 ELECT CAP 100 mFD/10V +-20% (5x11) 006-010100-1 (2x51-0 (2	16 2 16 1 16 1 16 1 16 1 17 16 1 18 1 19 10 1 10 1 10 1 10 1 10 1 10 1 10 1
R457 CHIP RESISTOR 330 Kohm + 5% 1/16W (0603/1608) 001-333452-0 R455 CHIP RESISTOR 470 Kohm + 5% 1/16W (0603/1608) 001-333452-0 R453 CHIP RESISTOR 560 ohm + 5% 1/16W (0603/1608) 001-347452-0 CAPACITORS CHIP CAP 0.1 uF/16V + -10% (0603/1608) 003-510412-0 C459 CHIP CAP 0.0022 uF/50V + -10% (0603/1608) 003-510412-0 C454 CHIP CAP 0.0022 uF/50V + -10% (0603/1608) 003-522212-0 (UMK1078222KZ-TM) (UMK1078222KZ-TM) 003-547312-0 C456 CHIP CAP 0.022 uF/25V + -10% (0603/1608) 003-547312-0 C452,453 CHIP CAP 0.022 uF/25V + -10% (0603/1608) 003-547312-0 (MCH182C223KK/GRM39X7R223KZ5PT) 006-02000-1 C450 CHIP CAP 500 pF/50V + -10% (0603/1608) 003-558112-0 C457,458 CHIP CAP 33 pF/50V + 5% NPO (0603/1608) 003-633052-0 (GRM39COG330J50PT/MCH185A330JK) 006-002000-5 C451 ELECT CAP 2.2 MFD/50V + 20% (5x11) 006-002000-5 C451 ELECT CAP 100 MFD/10V + 20% (5x11) 006-002000-5 C472A1 (B9-327-125-08) 008-002000-5 C472A1 (CAPYSTAL 4.332 M	16 1 1 16 1 1 16 1 1 16 1 1 16 1 1 1 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
R455 CHIP RESISTOR 470 Kohm +-5% 1/16W (0603/1608) 001-347452-0 R453 CHIP RESISTOR 560 ohm +-5% 1/16W (0603/1608) 001-356152-0 CAPACITORS C459 CHIP CAP 0.1 uF/16V +-10% (0603/1608) 003-510412-0 (87-A10-280-08G) (C1608JB1C104K) (TDK) C454 CHIP CAP 0.0022 uF/50V +-10% (0603/1608) 003-522212-0 (UMK1078222K2-TM) 003-522212-0 C456 CHIP CAP 0.0047 uF/25V +-10% (0603/1608) 003-522212-0 C452,453 CHIP CAP 0.002 uF/50V +-10% (0603/1608) 003-522312-0 (MCH182C223K/GRM39X/R223K25PT) 003-522312-0 C460 CHIP CAP 560 pF/50V +-10% (0603/1608) 003-556112-0 C457,458 CHIP CAP 560 pF/50V +-5% NPO (0603/1608) 003-633052-0 (GRM39COG330J50PT/MCH185A33UJK) 003-633052-0 C461 ELECT CAP 2.0 MFD/50V +-20% (5x11) 006-002000-5 C451 ELECT CAP 100 MFD/10V +-20% (5x11) 006-010100-1 TRANSISTORS C412,413 TR NPNSST-RAD&SC-059 2SC2712GR 008-A02712-0 (89-327-125-08) 008-A02712-0 CRYSTAL CX402 CRYSTAL 4.332 MHz CSA309 CL=16pF CITIZEN 009-604332-0 (B7-A70-091-01G) 010-351923-0 DIODES DZ402 ZENER IN-5231B, HZ5C1, 5.1V, 1/2W 011-010051-1 INDUCTOR L402 *CdF INDUCTOR 100 uH /1128/CEC-101K+-10% 018-010014-0 LAL03 TB 101K SCART PORTION RESISTORS R715 *CdF RESISTOR 100 ohm +-5% 1/16W (1/8W) 001-012351-0 R717,718,720 *CdF RESISTOR 10 ohm +-5% 1/16W (1/8W) 001-012351-0 R722,703 *CdF RESISTOR 12 Kohm +-5% 1/16W (1/8W) 001-012051-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020251-0	166 1 166 1 167 1 168 1 169 1
R453 CHIP RESISTOR 560 ohm +-5% 1/16W (0603/1608) 001-356152-0 CAPACITORS C459 CHIP CAP 0.1 uF/16V +-10% (0603/1608) 003-510412-0 C459 CHIP CAP 0.0022 uF/50V +-10% (0603/1608) 003-510412-0 C454 CHIP CAP 0.0022 uF/50V +-10% (0603/1608) 003-522212-0 C454 CHIP CAP 0.047 uF/25V +-10% (0603/1608) 003-522212-0 C456 CHIP CAP 0.047 uF/25V +-10% (0603/1608) 003-547312-0 C452,453 CHIP CAP 0.022 uF/25V +-10% (0603/1608) 003-522312-0 C460 CHIP CAP 560 pF/50V +-10% (0603/1608) 003-556112-0 C457,458 CHIP CAP 33 pF/50V +-5% NPO (0603/1608) 003-633052-0 (GRM39COG330J50PTMCH185A330JK) C461 ELECT CAP 2.2 MFD/50V +-20% (5x11) 006-002000-5 C451 ELECT CAP 2.2 MFD/50V +-20% (5x11) 006-002000-5 06-002000-5 C451 TR NPNSST-RAD&SC-059 2SC2712GR 008-A02712-0 CRYSTAL CX402 CRYSTAL 4.332 MHz CSA309 CL=16pF CITIZEN 009-604332-0 CRYSTAL 4.332 MHz CSA309 CL=16pF CITIZEN 009-604332-0 009-604332-0 INTEGRATED CIRCUIT ICAD S DECODER BU1923F (ROHM)	16 1 16 1 150 1 25 1 25 2 50 1 50 2 0D 1 0D 1
CAPACITORS CHIP CAP 0.1 uF/16V +-10% (0603/1608) 003-510412-0 C459 CHIP CAP 0.1 uF/16V +-10% (0603/1608) 003-510412-0 C454 CHIP CAP 0.0022 uF/50V +-10% (0603/1608) 003-522212-0 C456 CHIP CAP 0.047 uF/25V +-10% (0603/1608) 003-547312-0 C452,453 CHIP CAP 0.022 uF/25V +-10% (0603/1608) 003-522312-0 (MCH182C223KK/GRM39XTR223K25PT) CHIP CAP 560 pF/50V +-10% (0603/1608) 003-556112-0 C450 CHIP CAP 560 pF/50V +-10% (0603/1608) 003-556112-0 C457,458 CHIP CAP 560 pF/50V +-10% (0603/1608) 003-633052-0 (GRM39COG330J50PT/MCH185A330JK) 003-633052-0 C451 ELECT CAP 2.2 MFD/50V +-20% (5x11) 006-002000-5 C451 ELECT CAP 100 MFD/10V +-20% (5x11) 006-010100-1 TRANSISTORS 0412,413 TR NPNSST-RAD&SC-059 2SC2712GR 008-A02712-0 CRYSTAL CX402 CRYSTAL 4.332 MHz CSA309 CL=16pF CITIZEN 009-604332-0 INTEGRATED CIRCUIT IC403 ICRDS DECODER BU1923F (ROHM) 010-351923-0 DIODES ZENER IN-5231B, HZ5C1, 5.1V, 1/2W 011-010051-1 L402 *CdF RIODUCTOR	16 1 50 1 25 1 25 2 50 1 50 2 00 1
C459 CHIP CAP 0.1 uF/16V +-10% (0603/1608) (87-A10-260-08G) (C1608JB1C104K) (TDK) C454 CHIP CAP 0.0022 uF/50V +-10% (0603/1608) (UMK1078222KZ-TM) C456 CHIP CAP 0.0047 uF/25V +-10% (0603/1608) 003-522212-0 (UMK1078222KZ-TM) C452.453 CHIP CAP 0.022 uF/25V +-10% (0603/1608) 003-522312-0 (MCH182C223KK/GRM39X7R223K25PT) C460 CHIP CAP 560 pF/50V +-10% (0603/1608) 003-556112-0 C457.458 CHIP CAP 33 pF/50V +-5% NPO (0603/1608) 003-633052-0 (GRM39C0G330J50PTMCH185A330JK) C461 ELECT CAP 2.2 MFD/50V +-2% (5x11) 006-002000-5 C451 ELECT CAP 100 MFD/10V +-20% (5x11) 006-010100-1 TRANSISTORS C412,413 TR NPNSST-RAD&SC-059 2SC2712GR (B9-327-125-08) CRYSTAL CX402 CRYSTAL 4.332 MHz CSA309 CL=16pF CITIZEN (B7-A70-091-01G) INTEGRATED CIRCUIT IC403 ICRDS DECODER BU1923F (ROHM) 010-351923-0 DIODES DZ402 ZENER IN-5231B, HZ5C1, 5.1V, 1/2W 011-010051-1 INDUCTOR L402 *CdF INDUCTOR 100 uH /1128/CEC-101K+-10% LAL03 TB 101K SCART PORTION RESISTORS R715 *CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W) 001-010351-0 R702,703 *CdF RESISTOR 12 Kohm +-5% 1/16W (1/8W) 001-012351-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-0120251-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-0120251-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-0120251-0	50 1 25 1 225 2 50 1 2 50 2
(87-A10-260-08G) (C1608JBIC104K) (TDK) C454	50 1 25 1 225 2 50 1 2 50 2
C454 CHIP CAP 0.0022 uF/50V +-10% (0603/1608)	25 1 25 2 50 1 50 2 0D 1 0D 1
(UMK107B222KZ-TM) C456 CHIP CAP 0.047 uF/25V +-10% (0603/1608) C452,453 CHIP CAP 0.022 uF/25V +-10% (0603/1608) (MCH182C223KK/GRM39X7R223K25PT) C460 CHIP CAP 560 pF/50V +-10% (0603/1608) (MCH182C223KK/GRM39X7R223K25PT) C457,458 CHIP CAP 33 pF/50V +-5% NPO (0603/1608) (GRM39C0G330J50PTMCH185A330JK) C461 ELECT CAP 2.2 MFD/50V +-20% (5x11) 006-002000-5 C451 ELECT CAP 100 MFD/10V +-20% (5x11) 006-010100-1 TRANSISTORS C412,413 TR NPNSST-RAD&SC-059 2SC2712GR (89-327-125-08) CRYSTAL CX402 CRYSTAL 4.332 MHz CSA309 CL=16pF CITIZEN (87-A70-091-01G) INTEGRATED CIRCUIT IC403 ICRDS DECODER BU1923F (ROHM) DIODES DIODES DIODES DA402 ZENER IN-5231B, HZ5C1, 5.1V, 1/2W 011-010051-1 INDUCTOR L402 **CdF INDUCTOR 100 uH /1128/CEC-101K+-10% LAL03 TB 101K SCART PORTION RESISTORS **CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W) 001-010351-0 001-020251-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020251-0 001-020251-0	25 1 25 2 50 1 50 2 0D 1 0D 1
C456 CHIP CAP 0.047 uF/25V +-10% (0603/1608) 003-547312-0 C452,453 CHIP CAP 0.022 uF/25V +-10% (0603/1608) 003-522312-0 (MCH182C223KK/GRM39X7R223K25PT) 003-556112-0 C460 CHIP CAP 560 pF/50V +-10% (0603/1608) 003-556112-0 C457,458 CHIP CAP 33 pF/50V +-5% NPO (0603/1608) 003-633052-0 (GRM39COG330J50PT/MCH185A330JK) 003-633052-0 (GRM39COG330J50PT/MCH185A330JK) 006-002000-5 C461 ELECT CAP 2.2 MFD/50V +-20% (5x11) 006-002000-5 ELECT CAP 100 MFD/10V +-20% (5x11) 006-010100-1 TRANSISTORS Q412,413 TR NPNSST-RAD&SC-059 2SC2712GR 008-A02712-0 (89-327-125-08) 008-A02712-0 (87-A70-091-01G) 009-604332-0 (87-A70-091-01G) 009-604332-0 (87-A70-091-01G) 009-604332-0 DIODES DZ402 ZENER IN-5231B, HZ5C1, 5.1V, 1/2W 011-010051-1 INDUCTOR L402 *CGF INDUCTOR 100 uH /1128/CEC-101K+-10% 018-010014-0 LAL03 TB 101K SCART PORTION RESISTORS R715 *CGF RESISTOR 100 ohm +-5% 1/16W (1/8W) 001-010351-0 R702,703 *CGF RESISTOR 12 Kohm +-5% 1/16W (1/8W) 001-012351-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020251-0	25 2 50 1 50 2 0D 1 0D 1
C452,453	25 2 50 1 50 2 0D 1 0D 1
(MCH182C223KK/GRM39X7R223K25PT) C460	50 1 50 2 0D 1 0D 1
C460	50 2 0D 1 0D 1
C457,458	50 2 0D 1 0D 1
(GRM39COG330J50PT/MCH185A330JK) C461	DD 1
C461 ELECT CAP 2.2 MFD/50V ←20% (5x11) 006-002000-5 C451 ELECT CAP 100 MFD/10V ←20% (5x11) 006-010100-1 TRANSISTORS Q412,413 TR NPNSST-RAD&SC-059 2SC2712GR 008-A02712-0 (89-327-125-08) 008-A02712-0 (89-327-125-08) 009-604332-0 (87-A70-091-01G) 009-604332-0 (87-A70-091-01G) 009-604332-0 INTEGRATED CIRCUIT IC403 ICRDS DECODER BU1923F (ROHM) 010-351923-0 DIODES DZ402 ZENER IN-5231B, HZ5C1, 5.1V, 1/2W 011-010051-1 INDUCTOR L402 *CdF INDUCTOR 100 uH /1128/CEC-101K+-10% 018-010014-0 LAL03 TB 101K SCART PORTION RESISTORS R715 *CdF RESISTOR 100 ohm ←5% 1/16W (1/8W) 001-010351-0 R717,718,720 *CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W) 001-010351-0 R702,703 *CdF RESISTOR 12 Kohm +-5% 1/16W (1/8W) 001-012351-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020261-0	DD 1
C451	DD 1
TRANSISTORS Q412,413 TR NPNSST-RAD&SC-059 2SC2712GR 008-A02712-0 (89-327-125-08) CRYSTAL CX402 CRYSTAL 4.332 MHz CSA309 CL=16pF CITIZEN 009-604332-0 (87-A70-091-01G) INTEGRATED CIRCUIT IC403 ICRDS DECODER BU1923F (ROHM) 010-351923-0 DIODES DZ402 ZENER IN-5231B, HZ5C1, 5.1V, 1/2W 011-010051-1 INDUCTOR L402 *CGF INDUCTOR 100 uH /1128/CEC-101K+-10% 018-010014-0 LAL03 TB 101K SCART PORTION RESISTORS R715 *CGF RESISTOR 100 ohm +-5% 1/16W (1/8W) 001-010351-0 R717,718,720 *CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W) 001-010351-0 R702,703 *CdF RESISTOR 12 Kohm +-5% 1/16W (1/8W) 001-012351-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020261-0	
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(89-327-125-08) CRYSTAL CX402	
CRYSTAL CX402	~ ~
CX402	
(87-A70-091-01G) INTEGRATED CIRCUIT IC403	00 1
INTEGRATED CIRCUIT ICA03	" "
ICRDS DECODER BU1923F (ROHM) 010-351923-0 DIODES	
DIODES DZ402 ZENER IN-5231B, HZ5C1, 5.1V, 1/2W 011-010051-1 INDUCTOR L402 *Cdf INDUCTOR 100 uH /1128/CEC-101K+-10% 018-010014-0 LAL03 TB 101K SCART PORTION RESISTORS R715 *Cdf RESISTOR 100 ohm +-5% 1/16W (1/8W) 001-010151-0 R717,718,720 *Cdf RESISTOR 10 Kohm +-5% 1/16W (1/8W) 001-010351-0 R702,703 *Cdf RESISTOR 12 Kohm +-5% 1/16W (1/8W) 001-012351-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020261-0	01 1
DZ402 ZENER IN-5231B, HZ5C1, 5.1V, 1/2W 011-010051-1 INDUCTOR L402 *Cdf INDUCTOR 100 uH /1128/CEC-101K+-10% 018-010014-0 LAL03 TB 101K SCART PORTION RESISTORS R715 *Cdf RESISTOR 100 ohm +-5% 1/16W (1/8W) 001-010151-0 R717,718,720 *Cdf RESISTOR 10 Kohm +-5% 1/16W (1/8W) 001-010351-0 R702,703 *Cdf RESISTOR 12 Kohm +-5% 1/16W (1/8W) 001-012351-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020251-0	71 1
NDUCTOR L402	20 1
L402 *CdF INDUCTOR 100 uH /1128/CEC-101K+-10% 018-010014-0 LAL03 TB 101K **SCART PORTION** RESISTOR** R715 *CdF RESISTOR 100 ohm +-5% 1/16W (1/8W) 001-010151-0 R717,718,720 *CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W) 001-010351-0 R702,703 *CdF RESISTOR 12 Kohm +-5% 1/16W (1/8W) 001-012351-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020251-0	20 1
LAL03 TB 101K SCART PORTION RESISTORS R715	00 1
SCART PORTION RESISTORS R715 *CdF RESISTOR 100 ohm +-5% 1/16W (1/8W) 001-010151-0 R717,718,720 *CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W) 001-010351-0 R702,703 *CdF RESISTOR 12 Kohm +-5% 1/16W (1/8W) 001-012351-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020251-0	~ '
RESISTORS R715 *CdF RESISTOR 100 ohm ←5% 1/16W (1/8W) 001-010151-0 R717,718,720 *CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W) 001-010351-0 R702,703 *CdF RESISTOR 12 Kohm ←5% 1/16W (1/8W) 001-012351-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020251-0	
R715 *CdF RESISTOR 100 ohm +-5% 1/16W (1/8W) 001-010151-0 R717,718,720 *CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W) 001-010351-0 R702,703 *CdF RESISTOR 12 Kohm +-5% 1/16W (1/8W) 001-012351-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020251-0	
R717,718,720	16 1
R702,703 *CdF RESISTOR 12 Kohm +-5% 1/16W (1/8W) 001-012351-0 R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020251-0	
R721 RESISTOR 2 Kohm +-5% 1/16W (1/8W) 001-020251-0	
007 0202070	
[K701,700,722	
(1117)	
R708,709 *CdF RESISTOR 33 Kohm +-5% 1/16W (1/8W) 001-033351-0	
R707,710,711,712,719 *CdF RESISTOR 4.7 Kohm +-5% 1/16W (1/8W) 001-047251-0	16 5
CAPACITORS	
C701,702 ELECT CAP 0.22 MFD/50V +-20% (VX/5x11) 006-000200-5	
C703,704 ELECT CAP 10 MFD/50V +-20% (5x11) 006-010000-5	
C711,712 ELECT CAP 100 MFD/16V +-20% (5x11) 006-010100-1	SD 2
TRANSISTORS O701 703 709 709	
Q701,702,708,709 TR NPNGEN-BUL&TO-092 3DG9014 (9014) 008-609014-0	00 4
INDUCTORS	
FB701,702,703,704,705,706,707 *CdF FERRITE BEAD INDUCTOR #BL01RN1-A62 032-101162-0	
0.45 uH/7A (5x3.6mm) (87-008-372-01)	00 7
FFC CABLE 22 PINS L=200mm 4+192+4 P:1mm 040-220200-1	
UL2896 0.035x0.7 (TUNG HING)	
MISCELLANEOUS	
WH702, J11 FFC CONN 6232 22 PINS w/o LOCK PITCH:1mm 135-006232-2	
00 6232 022 006 800 VERTICAL TYPE	00 1
JK701 RGB CONNECTOR SOCKET 21 PINS 135-HRC021-2	00 1
HRC-021V-07 (KUNMING)/MRC-021V-04 (HONDA)	20 2

Ref. No.	Description	Mfr's Part No.	Qty.
TUNER PORTION			
RESISTORS			
JP403 ,404,405,406,407,408,409, 421,423,425	CHIP RESISTOR 0 ohm +-5% 1/16W (0603/1608)	001-300052-016	10
R401,410,412,443,444,445,459,	CHIP RESISTOR 1 Kohm +-5% 1/16W (0603/1608)	001-310252-016	8
465	,		ľ
R415,430,431	CHIP RESISTOR 100 ohm +-5% 1/16W (0603/1608)	001-310152-016	3
R451,461,409	CHIP RESISTOR 10 Kohm +-5% 1/16W (0603/1608)	001-310352-016	3
R402,403,435,448	CHIP RESISTOR 100 Kohm +-5% 1/16W (0603/1608)	001-310452-016	4
R420	CHIP RESISTOR 12 Kohm +-5% 1/16W (0603/1608)	001-312352-016	1
R421,442	CHIP RESISTOR 18 Kohm +-5% 1/16W (0603/1608)	001-318352-016	2
R467	CHIP RESISTOR 22 ohm +-5% 1/16W (0603/1608)	001-322052-016	1
R406,416	CHIP RESISTOR 220 ohm +-5% 1/16W (0603/1608)	001-322152-016	2
R405,422,438	CHIP RESISTOR 2.2 Kohm +-5% 1/16W (0603/1608)	001-322252-016	3
R413,417,423	CHIP RESISTOR 22 Kohm +-5% 1/16W (0603/1608)	001-322352-016	3
R411,419,424,425,426,427,452	CHIP RESISTOR 3.3 Kohm +-5% 1/16W (0603/1608)	001-333252-016	7
R418	CHIP RESISTOR 3.9 Kohm +-5% 1/16W (0603/1608)	001-339252-016	1
R404,407	CHIP RESISTOR 47 ohm +-5% 1/16W(0603/1608)	001-347052-016	2
R408	CHIP RESISTOR 470 ohm +-5% 1/16W (0603/1608)	001-347152-016	1
R428,429,436,447	CHIP RESISTOR 4.7 Kohm +-5% 1/16W (0603/1608)	001-347252-016	4
R446	CHIP RESISTOR 47 Kohm +-5% 1/16W (0603/1608)	001-347352-016	1
	(MCR03EZHJ-473)		
R414	CHIP RESISTOR 56 ohm +-5% 1/16W (0603/1608)	001-356052-016	1
R437	CHIP RESISTOR 560 ohm +-5% 1/16W (0603/1608)	001-356152-016	1
R460	CHIP RESISTOR 5.6 Kohm +-5% 1/16W (0603/1608)	001-356252-016	1
R466	CHIP RESISTOR 8.2 Kohm +-5% 1/16W (0603/1608)	001-382252-016	1
CAPACITORS			
C421	CHIP CAP 0.001 uF/50V +-10% (0603/1608)	003-510212-050	1
	(MCH185C102KK/GRM39X7R102K50PT)		
C403,404,409,410,415	CHIP CAP 0.01 uF/50V +-10% (0603/1608)	003-510312-050	5
	(GRM39B103K50PT)		
C418,427,436	CHIP CAP 0.1 uF/16V +-10% (0603/1608)	003-510412-016	3
	(87-A10-260-08G) (C1608JB1C104K) (TDK)		
C422,428,429,432,433	CHIP CAP 0.015 pF/50V +-10% (0603/1608)	003-515312-050	5
C438	CHIP CAP 0.0022 uF/50V +-10% (0603/1608)	003-522212-050	1
	(UMK107B222KZ-TM)		
C402,405,411,414,439,441,444,	CHIP CAP 0.022 uF/50V +-10% (0603/1608)	003-522312-050	8
466			
C473,476	CHIP CAP 0.0047 uF/50V +-10% (0603/1608)	003-547212-050	2
C406	CHIP CAP 0.047 uF/25V +-10% (0603/1608)	003-547312-025	1
C423,424	CHIP CAP 0.47 uF/10V +-10% (0603/1608)	003-547412-010	2
C420 449 449	(LMK107BL474KA-T)		
C420,448,449	(F003-610112-050) CHIP CAP 100 pF/50V	003-610152-050	3
C413	+-5% NPO (0603/1608)		
C413	CHIP CAP 15 pF/50V +-5% NPO (0603/1608)	003-615052-050	1
C446.447	(UMK107CH150JZ-TM)		
C446,447 C475	CHIP CAP 24 pF/50V +-5% NPO (0603/1608) (F003-527012-050) CHIP CAP 27 pF/50V	003-624052-050	2
0710	+-5% NPO (0603/1608) (UMK107CH270JZ-TM)	003-627052-050	1
C412	POLY CAP 350 pF/50V +-5% (B351J09P2HH33AAA)	005 005400 555	
C425,467,468	ELECT CAP 0.47 MFD/50V +-3% (B351JU9P2HH33AAA)	005-035100-000	1
C417,426,430,431	ELECT CAP 1.47 MFD/50V +-20% (5X11) ELECT CAP 1 MFD/50V +-20% (5X11)	006-000400-50D	3
C435	ELECT CAP 1 MFD/50V +-20% (5x11)	006-001000-50D 006-010000-50D	4
C437,465,470	ELECT CAP 100 MFD/36V +-20% (5x11)		1
C419	ELECT CAP 100 MPD/16V +-20% (5x11) ELECT CAP 22 MFD/25V +-20% (5x11)	006-010100-16D	3
	CCCO, GAT 22 MI DI234 T-20% (0X11)	006-022000-25D	1

Ref. No.	Description	Mfr's Part No.	Qty
C416,442	ELECT CAP 220 MFD/10V +-20% (6.3x11)	006-022100-10D	2
C471	ELECT CAP 220 MFD/16V +-20% (8x11.5)	006-022100-16D	1
C408	*CdF ELECT CAP 47 MFD/16V +-20% (5x11)	006-047000-16D	1
TC401	*CdF TRIMMER CAP CVN610 3-10pF WHITE	007-200610-000	1 1
	(6x6x5mm) (JIN MYOUNG)		1
TRANSISTORS			
Q402	CHIP NJFET SST201/SST201B-T1 (SILICONIX)	008-A00201-010	1
	2SK208Y TOSHIBA	0007100001010	'
Q409,410	TR PNPPWR-RAD&SC-059 2SA1036K	008-A01036-000	2
Q403,404,405,411	TR NPNSST-RAD&SC-059 2SC2712GR	008-A02712-000	4
	(89-327-125-08)	000-702712-000	"
CRYSTAL	(60 52. 120 50)		_
CX401	CRYSTAL 7.2 MHz HC-49/U	700 007000 000	
INTEGRATED CIRCUITS	OKTOTAL 1.2 WHZ HO-49/0	009-607200-000	1
IC401	LODDO TARRONNI (TOCHIDA) (DT AGA (TO GA)	1	
C402	ICRDS TA2099N (TOSHIBA) (87-A21-173-01)	010-832099-000	1
DIODES	ICPLL TC9257F	010-849257-000	1
	Live and the second sec		
VD401,402	VARI CAP DIODE 1SV149B,TOSHIBA	011-000149-000	2
D401,402,403,404	DIODE IN-4148 ROHM/TELEFUNKEN TAP**50	011-004148-000	4
	KEL(NS)(TAP:52mm)/NS(FAIRCHILD)/SEMTECH		
INDUCTORS			
T408,409	IFT 7PF022C 7.8mm BLACK	012-000022-078	2
T405	IFT 7M4A1772R 7.5mm YELLOW 012-001720-075	012-001772-075	1
T403	IFT 7M1A1959R 7.5mm RED 012-001905-075	012-001959-075	1
T401	IFT 7M1A1961R 7.5mm BLACK 012-001950-075	012-001961-075	1
INDUCTORS			
L401,403	*CdF INDUCTOR 100 uH /1128/CEC-101K	018-010014-000	2
	+-10% LAL03 TB 101K		
FILTERS			
CF401,402	CERAMIC FILTER SFE10.7MS3-A	019-000107-006	2
CF404	CERAMIC FILTER CDA10.7MG82-A	019-000107-028	1
CF403	(F019-000450-002) CERAMIC FILTER LTU450G2	019-000450-012	1
WIRES	(TO SOURCE OF S	013-000430-012	<u> </u>
WH401 TO WH304	HSG CD170-108 10PINS JST PHR-2mm w/110mm	136-100170-000	1
	R,BK,W,Y,BL,OR,R,BK,W,Y AWG28#1095 4mm	130-100170-000	'
WH401 TO WH305	HSG (2mm) PEC 2001H-03 TO 2003H-03 w/225mm	400 540000 500	
1111701 TO 1111000	SHIELD WIRE AWG28#UL2547/2C RED,WHITE	136-F10322-500	1
MISCELLANOUS	Shield Wike AWG26#0L2547/2C RED,WHITE		
MISCELEAROUS	TIMES SHARROWS AND SHARROWS AND SHARROWS		_
	TUNER-FM&&&00STATION FM FRONT END TUNER	042-103010-000	1
	PET-3010F/H (EU) (TAE BONG)		
	JACK COAXIAL JACK HTR-401V	118-030401-000	1
JK401	HEADER MOLEX 2 PINS 5268-02A PITCH 2.5mm	135-005268-020	1
	HORIZONTAL TYPE		
CENTER SPEAKER P		***************************************	
	JP WIRE AWG22#1007 5x5mm 130mm RED	051-275130-006	1
	JP WIRE AWG22#1007 5x5mm 130mm BLACK	051-275130-009	1
	PUSH TERMINAL BOARD PT-213-03 BLACK,RED	118-000213-000	1
	MSP-105H-03 BLACK,RED		
FOR CT	SPK WIRE UL/CSA 2468 2x22 AWG 17/0.16mm	122-002120-401	1
	TRANS. w/BK LINE 4M w/TUBE 2xRED,BLK,BRN		
	SPK00003"008OHM0050W w/BK DOME PAPER CAP	131-308050-010	1
	#LF77SZ4307G55C8AS19PDB (GGEC)(L0234)		
ACTIVE SUB-WOOFE	R PORTION - SWT1A		
OUTPUT TERMINAL I			
JULPUL LEKMINAL I			

Ref. No.	Description	Mfr's Part No.	Qty
R880,881,882	*CdF RESISTOR 10 ohm +-5% 1/16W (1/8W)	001-010051-016	3
R1003	*CdF RESISTOR 100 ohm +-5% 1/16W (1/8W)	001-010151-016	1
R877	*CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W)	001-010351-016	1
R875	*CdF RESISTOR 22 Kohm +-5% 1/16W (1/8W)	001-022351-016	1
R876	*CdF RESISTOR 3.3 Kohm +-5% 1/16W (1/8W)	001-033251-016	1
R873,874	*CdF RESISTOR 47 Kohm +-5% 1/16W (1/8W)	001-047351-016	2
R871	RESISTOR 56 Kohm +-5% 1/16W (1/8W)	001-056351-016	1
CAPACITORS			
C996	(F003-010380-025) CERAMIC CAP 0.01 uF/	003-010380-050	1
	50V +80%-20%		1
C998	ELECT CAP 1000 MFD/16V +-20% (10x20)	006-010200-16D	1
TRANSISTORS			
Q871,875	TRLNPNSST-TAP&TO-092 3DG1815	008-618150-000	2
Q872	TRLPNPPWR-TAP&TO-092 3CA8550	008-685500-000	1
DIODES		000-000000-000	
D913,915,916	DIODE IN-4148 ROHM/TELEFUNKEN TAP**50	011-004148-000	3
	KEL(NS)(TAP:52mm)/NS(FAIRCHILD)/SEMTECH	011-004148-000	3
D914	RECTIFIER IN-4001B	044 004004 000	
MISCELLANEOUS	neo mien m-100 ib	011-024001-000	1
JK601,603	4 P PUSH TERMINAL BOARD HSP-354V-03	440 000001 222	-
urros 1,000	A,B-RED C,D-BLACK (STS5x/STS6x)	118-000354-000	2
JK602			Ι.
38002	EXT SP JACK HSP-102V-01 A-RED,B-BLACK	118-040102-000	1
JK604	(PUSH TERMINAL BOARD)		
	MINI DIN SOCKET MDSL-09SC0A (LEOCO)	119-000090-000	1
6-8-	RELAY 12V OSA-SS-212DM5	128-122125-000	3
CN01	HEADER 2 PINS #TJ6-2A PITCH:3.96mm	135-000TJ6-020	1
	VERTICAL 1.14mm AQURE PIN		
CN02	HEADER MOLEX 2 PINS 5267-02A PITCH 2.5mm	135-005267-020	1
	STRAIGHT TYPE		
POWER AF PORTION			
RESISTORS			
R680,905,915	RESISTOR 100 ohm,+-5%,1/4W	001-010150-014	3
R632,661,664 ,665,919,1015,1016	*CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W)	001-010351-016	7
R657,663,687,920	*CdF RESISTOR 100 Kohm +-5% 1/16W (1/8W)	001-010451-016	4
R614,616,631,633,634,907	RESISTOR 1.8 Kohm,+-5%,1/16W (1/8W)	001-018251-016	6
R924	*CdF RESISTOR 2.2 Kohm +-5% 1/16W (1/8W)	001-022251-016	1
R662	*CdF RESISTOR 22 Kohm +-5% 1/16W (1/8W)	001-022351-016	1
R610,619,622,627,639,912	(F001-022951-001) RESISTOR 0.22 ohm +-5%	001-022952-001	6
	1W (METAL FILM)	00.022002.001	ľ
R1001	RESISTOR 3.3 Kohm +-5% 1/2W	001-033250-012	1
R605,606,666,671,672,673,689,	*CdF RESISTOR 4.7 Kohm +-5% 1/16W (1/8W)	001-047251-016	10
903,909.910	The state of the s	001-04/231-016	10
R602,604,675,677,679,682,683,	*CdF RESISTOR 47 Kohm +-5% 1/16W (1/8W)	004 047054 040	
684,685,686,902,921	Och RESISTOR 47 ROTHIT 7-5% (7/644 (1/644)	001-047351-016	12
R640,642,643,644,645,646,647,	BESISTOD 4.7 above 50/ 4/004/		
648,649,650,914,917	RESISTOR 4.7 ohm +-5% 1/2W	001-047850-012	12
R641,681	RESISTOR 56 ohm +-5% 1/4W	001-056050-014	2
R658	RESISTOR 5.6 Kohm +-5% 1/16W (1/8W)	001-056251-016	1
R607,611,612,613,615,617,621,	RESISTOR 56 Kohm +-5% 1/16W (1/8W)	001-056351-016	19
625,629,630,635,636,668,669,			
670,901,906,908,916			
R608,609,618,620,623,624,626,	*CdF RESISTOR 6.8 Kohm +-5% 1/16W (1/8W)	001-068251-016	13
628,637,638,659,913,918			
R652,653,654,655,656,923	*CdF RESISTOR 82 Kohm +-5% 1/16W (1/8W)	001-082351-016	6
CAPACITORS			

Ref. No.	Description	Mfr's Part No.	Qty.
C605,606,617,619,621	CERAMIC CAP 220 pF/50V +-10%	003-022110-050	5
C601,602,636,637,638,903	CERAMIC CAP 470 pF/50V +-5% (88-211-550-81C)	003-047150-050	6
C916	SEMI-COND 0.022 uF/25V +-10%	003-322310-025	1
C607,610,615,616,623,906	CERAMIC CAP 3 pF/50V +-0.25pF (NPO)	003-430830-050	6
	(CC45-CH1H030C/RBU04CH030C-L)		
C625,626,627,628,629,911	#MYLAR CAP 0.1 uF/50V +-10%	004-010410-050	6
C603,604,633,634,635	ELECT CAP 1 MFD/50V +-20% (5x11)	006-001000-50D	5
C630,631,902	ELECT CAP 10 MFD/50V +-20% (5x11)	006-010000-50D	3
C613,614,624,905	ELECT CAP 100 MFD/35V +-20% (8x11.5)	006-010100-35D	4
C907	ELECT CAP 1000 MFD/16V +-20% (10x20)	006-010200-16D	1
C632,917	ELECT CAP 22 MFD/25V +-20% (5x11)	006-022000-25D	2
C909,910	(F006-022200-35D) ELECT CAP 2200 MFD/	006-022200-35C	2
	35V +-20% (VX/16x31.5)		
C611,612	ELECT CAP 3300 MFD/35V +-20% (18x35)	006-033200-35D	2
C608,609,618,620,622,904	*CdF ELECT CAP 47 MFD/16V +-20% (5x11)	006-047000-16D	6
C908	ELECT CAP 47 MFD/50V +-20% (87-010408-08J)	006-047000-50C	1
TRANSISTORS	20.0 (0.1 0.10.100.000)	000-047000-000	<u> </u>
Q611	TR PNPSST-RAD&TO-092 3CG733P (2SA733P)	008-600733-000	1
Q607	TR NPNSST-RAD&TO-092 3DG945P (2SC945P)	008-600945-000	'
Q603,604,605,606,608,610,615,	TRLPNPSST-TAP&TO-092 3CG1015	008-610150-000	9
902	11 LL 14 CO1-174 G10-032 SCG1013	000-010150-000	9
Q601,602,609,616,617,618,901	TRLNPNSST-TAP&TO-092 3DG1815	008-618150-000	7
Q614	TRLNPNPWR-TAP&TO-092 3DA8050	008-680500-000	1
Q612	TR NPNSST-RAD&SC-072 DTC114ES (ROHM)	008-801141-000	1
INTEGRATED CIRCUITS			
IC601	ICAMP-POWR-&&-00020W STK402-930 (SANYO)	010-550402-001	1
	(5 CHANNELS AF)		
IC901	ICAMP-POWR-&&-00040W STK404-070	010-550404-000	1 1
	(1 CHANNEL AF)		
DIODES			
D601,602,603,604,605,607,901,	DIODE IN-4148 ROHM/TELEFUNKEN TAP**50	011-004148-000	8
906	KEL(NS)(TAP:52mm)/NS(FAIRCHILD)/SEMTECH	011/004/40-000	ľ
ZD901	ZENER DIODE MTZJT-72-12B 12V 1/2W	011-010012-120	1 1
	(TSB#G51421015104)	011-010012-120	'
INDUCTORS	1,100		Ь
L601,602,603,604,605,901	FM COIL 24.5T 4mm/4.0x24.5Tx0.7 RED	015-245040-007	
	DIA:0.7mm #CS47-868793/F192829	013-243040-007	6
MISCELLANEOUS			_
	DIN COAXIAL CABLE #2464 9C+1 DIA:10mm	122-004020-500	1
	L=5M UL2464-SB 9Cx26AWG (9 PIN)	122-004020-500	'
	SPK006.5"0040HM0120W w/BK DOME PAPER CAP	424 654040 040	
	#SW165RZ5802G100F4AS36PFB (L0257)	131-6540A0-010	1
PRE AF PORTION	#8441031238028100F4A830FFB (L0257)		
RESISTORS			
R850,861,862,863,864	*CdF RESISTOR 10 Kohm +-5% 1/16W (1/8W)		
R961,962,969,970,976,977		001-010351-016	5
	*CdF RESISTOR 100 Kohm +-5% 1/16W (1/8W)	001-010451-016	6
R959,964,967,972,974 R983	*CdF RESISTOR 12 Kohm +-5% 1/16W (1/8W)	001-012351-016	5
	*CdF RESISTOR 15 Kohm +-5% 1/16W (1/8W)	001-015351-016	1
R852,854,965,966,973,980,985,	*CdF RESISTOR 220 ohm +-5% 1/16W (1/8W)	001-022151-016	10
986,991,992			
R951,952,953,954,955,956,978, 999	*CdF RESISTOR 2.2 Kohm +-5% 1/16W (1/8W)	001-022251-016	8
333			
	*CdE RESISTOR 22 Kohm +_59/ 1/16/4/ (1/0)40	004 000054 015	,
R981 R960,963,968,971,975,993,994,	*CdF RESISTOR 22 Kohm +-5% 1/16W (1/8W) *CdF RESISTOR 4.7 Kohm +-5% 1/16W (1/8W)	001-022351-016 001-047251-016	1

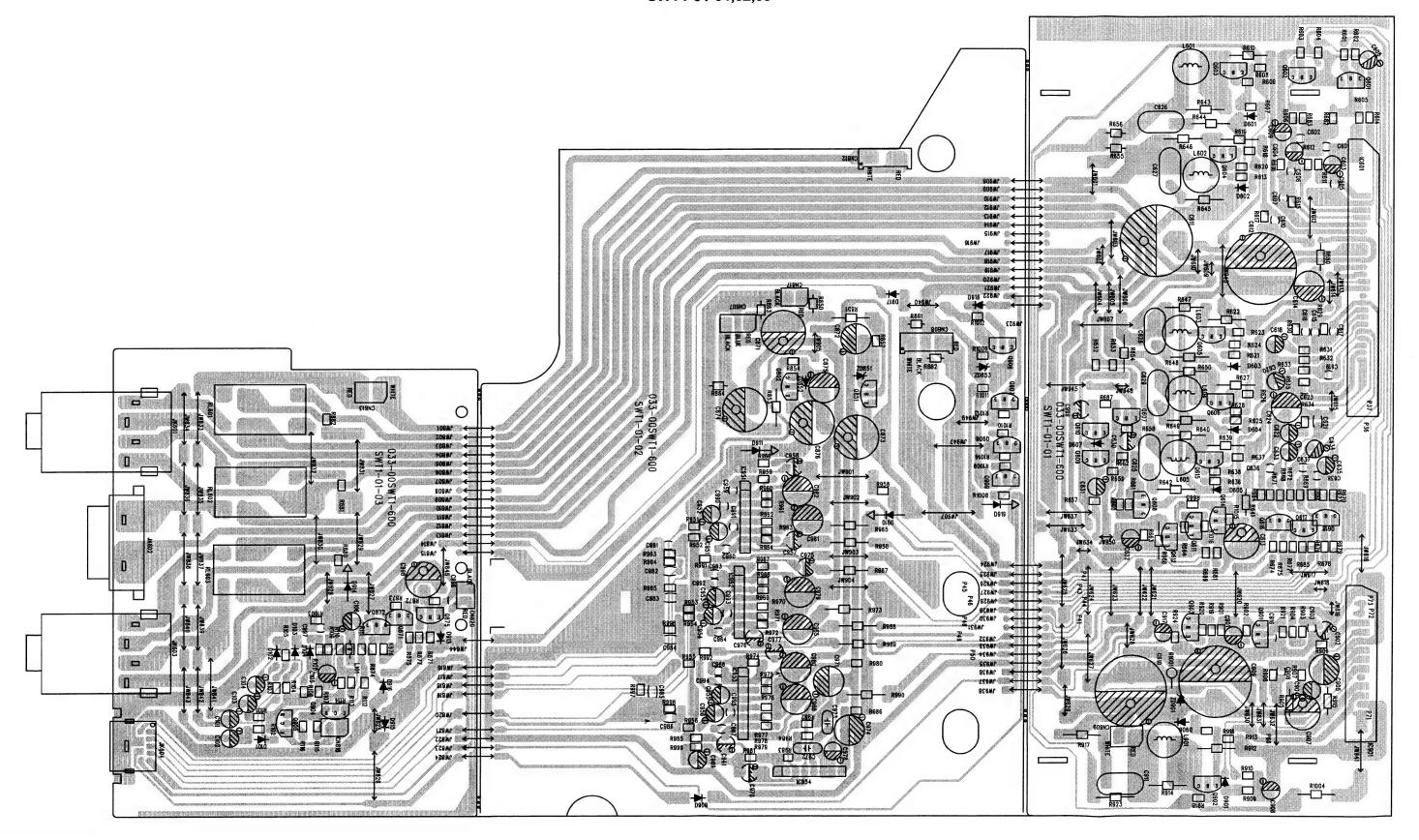
Ref. No.	Description	Mfr's Part No.	Qty
R984,982	RESISTOR 68K ←5% 1/16W (1/8W)	001-068351-016	2
R950,958,987,988,989,990	RESISTOR 8.2 Kohm +-5% 1/16W (1/8W)	001-082251-016	6
R979	*CdF RESISTOR 82 Kohm +-5% 1/16W (1/8W)	001-082351-016	1
CAPACITORS			
C959,960,963,964,966	CERAMIC CAP 100 pF/50V +-10%	003-010110-050	5
C981,982,983,984,985,986	CERAMIC CAP 220 pF/50V +-10%	003-022110-050	6
C990,991,992,993,994,995	CERAMIC CAP 30 pF/50V +-10%	003-030010-050	6
C997	CERAMIC CAP 0.04 uF/50V +80-20%	003-040380-050	l 1
C967	SEMI-COND 0.0056 uF/25V +-10% Y5P	003-356210-025	1
C973	#MYLAR CAP 0.012 uF/100V +-10%	004-012310-100	1
C972	#MYLAR CAP 0.068 uF/100V +-10%	004-068310-100	1
C969,970	ELECT CAP 0.47 MFD/50V +-20% (5x11)	006-000400-50D	2
C951,952,953,954,955,956,957,	ELECT CAP 1 MFD/50V +-20% (5x11)	006-001000-50D	11
958,975,976,977	223 3.4 7 M 2700 1 2070 (0X11)	000-001000-30D	l ''
C941,978	ELECT CAP 10 MFD/50V +-20% (5x11)	006-010000-50D	١
C872.875	ELECT CAP 100 MFD/16V +-20% (5x11)		2
C961,962,965,968,971,974,979,		006-010100-16D	2
980	ELECT CAP 220 MFD/16V +-20% (8x11.5)	006-022100-16D	8
C871,874	ELECT CAP 220 MFD/25V +-20% (8x11.5)	006-022100-25D	2
C873,876	ELECT CAP 470 MFD/25V +-20% (10x16)	006-047100-25D	2
TRANSISTORS			
Q851	TRLNPNPWR-TAP&TO-092 3DA8050	008-680500-000	1
Q802	TRLPNPPWR-TAP&TO-092 3CA8550	008-685500-000	1
INTEGRATED CIRCUITS		1 000 000000 000	<u> </u>
IC951,952,953 ,954	IC BA4558N O.AMP	010-404558-000	4
DIODES	PO DATIOUS COMM	010-404336-000	1 7
D909	DIODE IN-4148 ROHM/TELEFUNKEN TAP**50	011 004149 000	
	KEL(NS)(TAP:52mm)/NS(FAIRCHILD)/SEMTECH	011-004148-000	1
ZD851,852			١.
20031,032	ZENER DIODE MTZJT-72-12B 12V 1/2W	011-010012-120	2
D040 B44	(TSB#G51421015104)		
D910,911 WIRE	RECTIFIER IN-4001B	011-024001-000	2
	Tip wips aviocation a		
A TO A'	JP WIRE AWG26#1007 5x5mm 60mm BLACK	051-675060-009	1
RECTIFIER PORTION			
RESISTOR			
R859	*CdF RESISTOR 100 ohm +-5% 1/16W (1/8W)	001-010151-016	1
CAPACITORS			
C861,862,863,864,867,868,869,	(F003-010380-025) CERAMIC CAP 0.01 uF/50V	003-010380-050	8
870	+80%-20%		
C879,880	ELECT CAP 100 MFD/50V +-20% (8x11.5)	006-010100-50D	2
C877,878	ELECT CAP 1000 MFD/25V +-20% (12.5x20)	006-010200-25D	2
DIODES			
D855,856,857,858	RECTIFIER 10A1 10A 100V (GW)	011-020010-990	4
D851,852,853,854,859	RECTIFIER IN-4001B	011-024001-000	5
WIRES			-
CN809 TO CN812	JP WIRE AWG22#1015 5x5mm 300mm RED	051-255300-006	2
CN813 TO CN01	JP WIRE AWG22#1015 5x5mm 300mm WHITE	051-255300-008	2
MISCELLANEOUS		1	
LED101	LED-R-3MM&-S-&&&-&&& SE-3001DT 3mm	110-030010-003	1
	BRIG.RED 28mm LEAD w/REFL. (8C-CS8-619-01)	110-000010-003	Ι΄
	PT300WEI76/56&F&BVDE 230V:24V/24V/13V/	122 552554 400	١.
	13V w/FUSE 130°C (L7656-G01E)	123-F53551-400	1
FUSE1,2		404 040000 555	_
UGE 1,2	FUSE #S506 1.6A/250V 5x20mm TIME LAG.	124-016020-000	2
	(CUL/SEMKO/VDE/BSI APP.)		
RL806	RELAY 9V SDT-S-109LMR	128-090109-000	1

Ref. No.	Description	Mfr's Part No.	Qty
FUSE3 ,4	FUSE #218008 8A/250V 5x20mm TIME-LAG	124-080020-001	2
	(UL/CSA) (WANTON)		l
	PLA-ULN-7'05"-VDE-MG VDE APP.CORD	134-B11331-006	1
	2250mm MIGRATION (HARVEST)		1
CN805	HEADER JMT 3 PINS JM2422-3 PITCH:3.96mm	135-002422-030	1
CN814,817	HEADER 2 PINS PEC #2507-WS-2 PITCH 2.5mm	135-2507WS-020	2
	VERTICAL REPLACE:135-005267-020		l
CN806	HEADER 3 PINS PEC #2507-WS-3 PITCH 2.5mm	135-2507WS-030	1
	VERTICAL REPLACE:135-005267-030		l
WIRES			
CN817 TO A.B	HSG CD228-2A MOLEX 5264 w/300mm RED,BLK	136-020228-250	2
CN814 TO CN820	AWG26#1007 UL JP SLDG.4mm		
CN02 TO LED101	HSG CD363-2C PIN MOLEX5264 2.5mm w/600mm	136-020363-251	1
	RED,BLK JP AWG26#1007 SLDG 4mm		
CN806 TO CN807	HSG AS162-3 MOLEX 5264 WITH 220mm RED,	136-030162-000	1
	BLUE,BLACK AWG26#1007 JP SLDG 5mm		
CN805 TO CN808	HSG CD2775-3B JMT JP2422-3 w/230mm	136-032775-390	1
	RED, BLACK, WHITE AWG22#UL1007 SLDG.4mm		
CN01 TO SP	HSG (3.96mm) YS TJC6-2Y w/600mm	136-MZ0260-000	1
	RED,BLACK AWG18#UL1007 SLDG.10mm		
4-SPEAKER PORTION	- SSQ3		
	JP WIRE AWG22#1007 5x5mm 130mm RED	051-275130-006	4
	JP WIRE AWG22#1007 5x5mm 130mm BLACK	051-275130-009	4
	PUSH TERMINAL BOARD PT-213-03 BLACK, RED	118-000213-000	4
	MSP-105H-03 BLACK,RED		
FOR FR	SPK WIRE UL/CSA 2468 2x22 AWG 17/0.16mm	122-002120-402	1
	TRANS.w/BK LINE 4M w/TUBE 2xRED,BLK,YEL		
FOR FL	SPK WIRE UL/CSA 2468 2x22 AWG 17/0.16mm	122-002120-403	1
	TRANS.w/BK LINE 4M w/TUBE 2xRED,BLK,BLUE		
FOR SR	SPK WIRE UL/CSA 2468 2x22 AWG 17/0.16mm	122-002121-003	1
	TRANS.w/BK LINE 10M w/TUBE 2xRED,BLK,GRN		
FOR SL	SPK WIRE UL/CSA 2468 2x22 AWG 17/0.16mm	122-002121-004	1
	TRANS.w/BK LINE 10M w/TUBE 2xRED,BLK,ORN		
	SPK00003*008OHM0050W w/BK DOME PAPER CAP	131-308050-010	4
	#LF77SZ4307G55C8AS19PDB (GGEC)(L0234)		l

^{1. * # &}quot; Mylar is a registered trademark of E.I. Du Pont de Nemours and Company.
2. \(\frac{\(\)}{\(\)}\) Symbol in parts list represent safety parts.

PRINTED CIRCUIT BOARDS

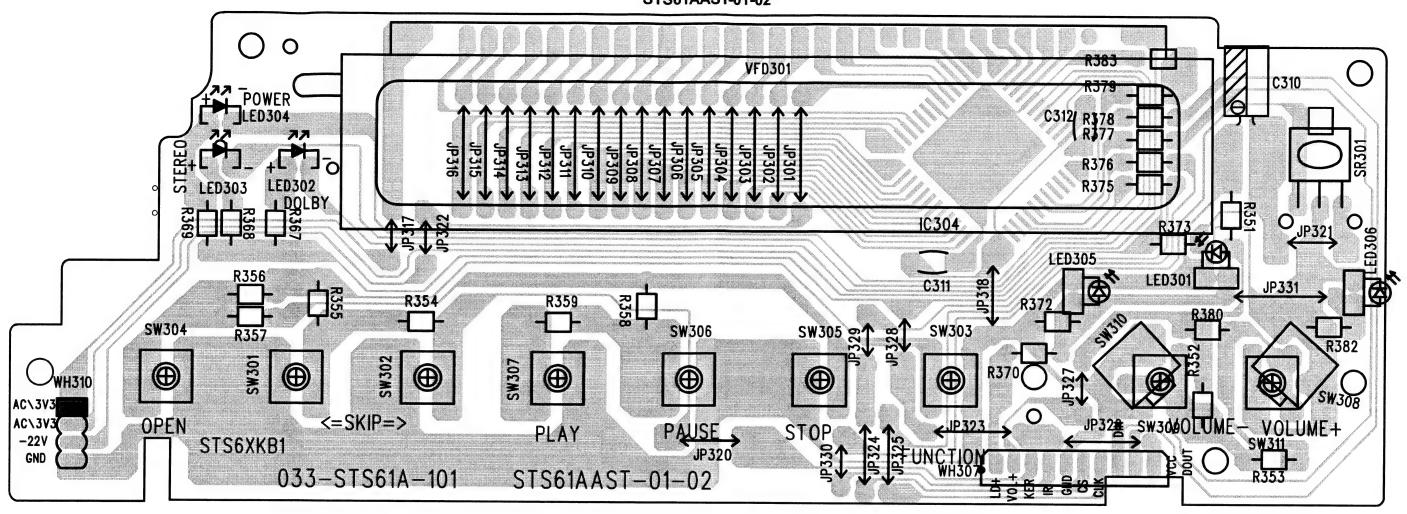
POWER AMPLIFIER PCB SWT1-01-01,02,03

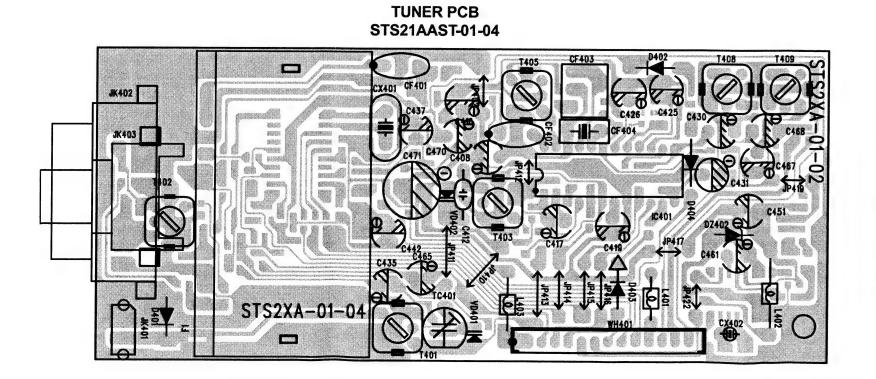


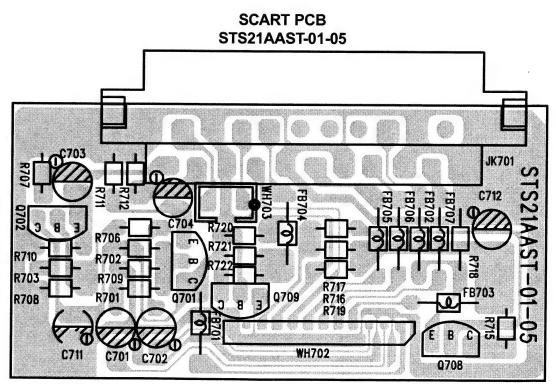
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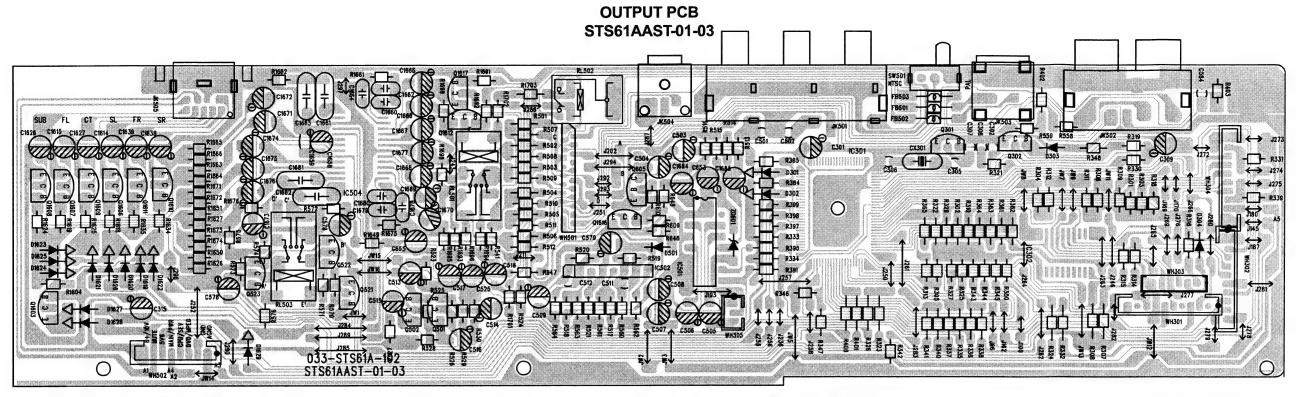
PCB Part No.: <u>033-00STW1-600</u> of this model are assembled and aligned in <u>FULL SET</u> and are supplied in <u>FULL SET</u> for serving.

DISPLAY & KEY PCB STS61AAST-01-02

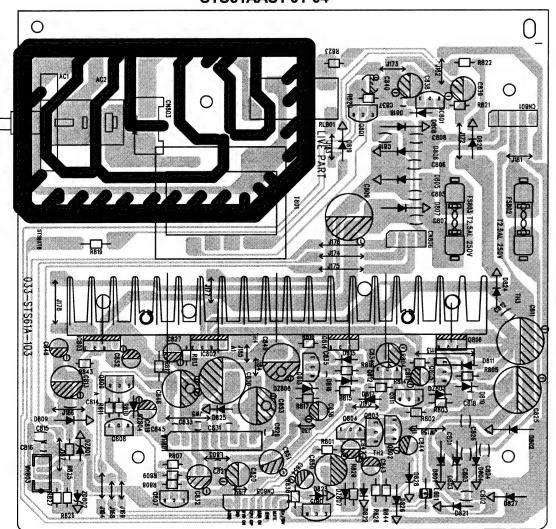




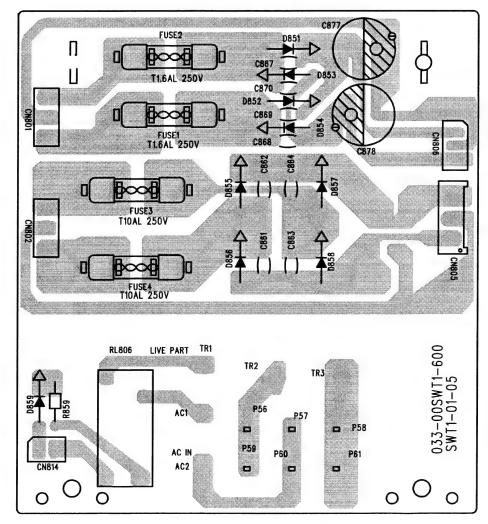




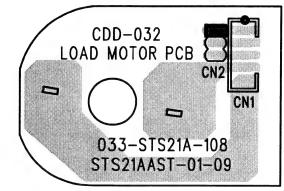
RECTIFIER PCB STS61AAST-01-04



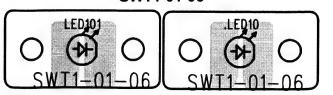
SUB-WOOFER RECTIFIER PCB SWT1-01-05



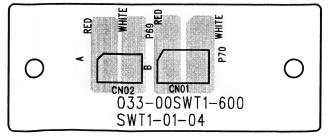
LOAD MOTOR PCB STS21AAST-01-09



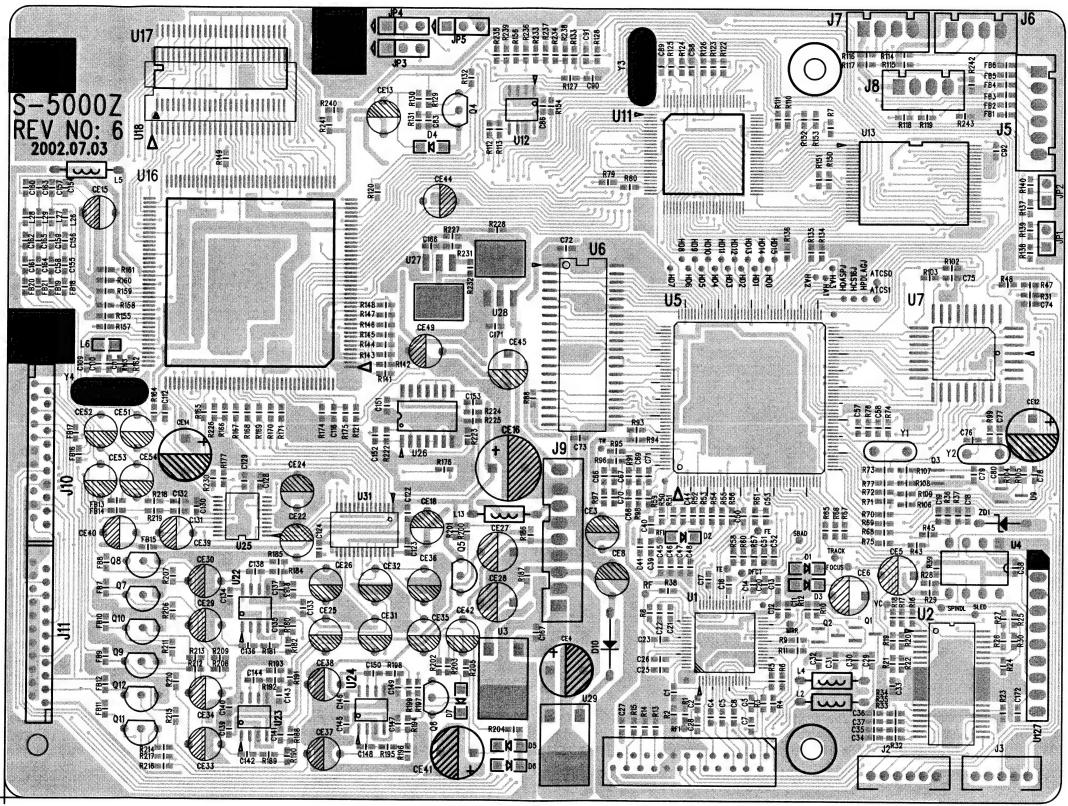
LED PCB SWT1-01-06



CONNECTION PCB SWT1-01-04

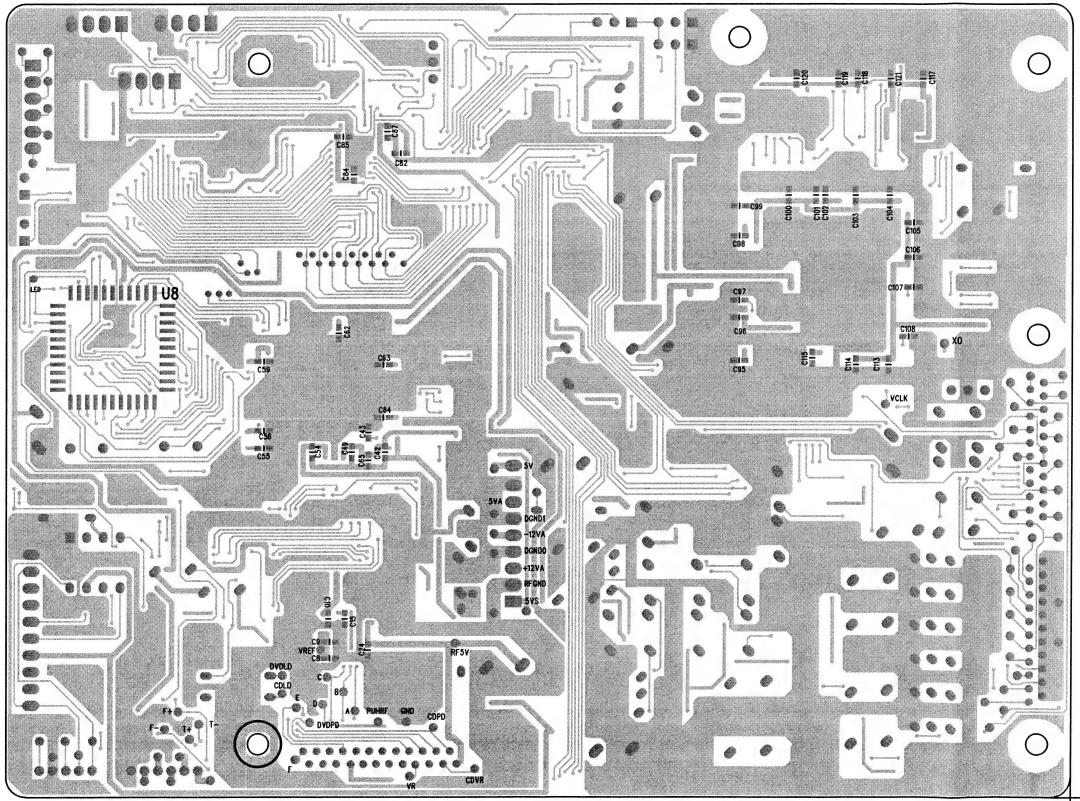


MPEG+SERVO PCB STS21AAST-01-02

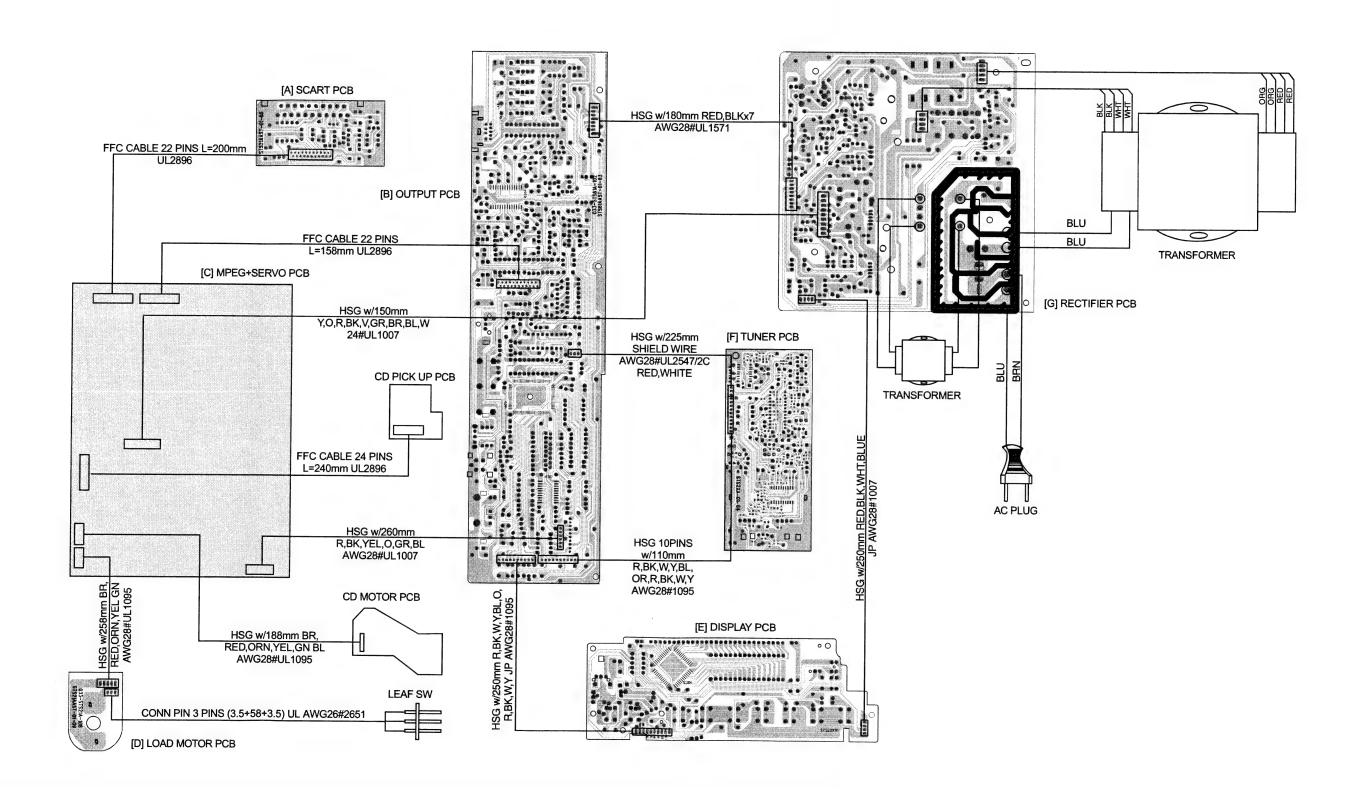


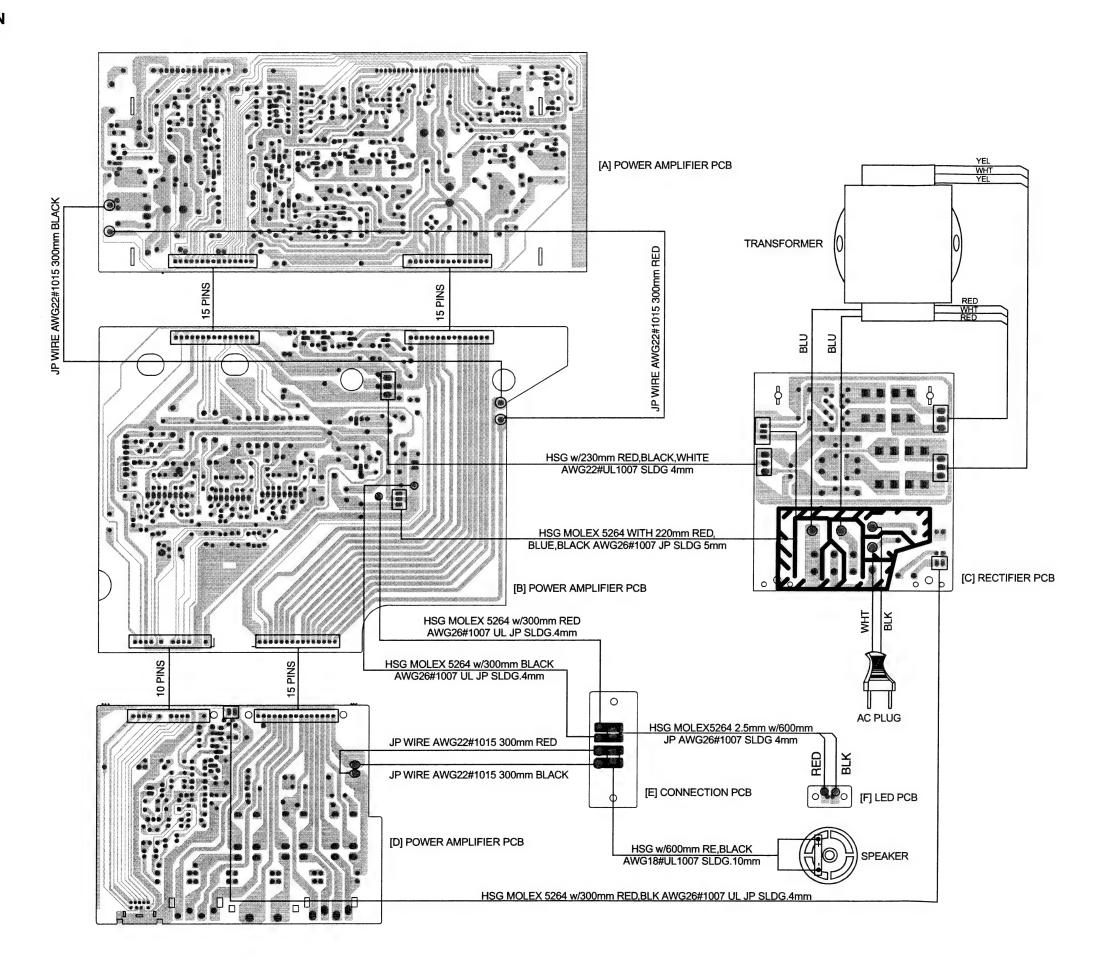
TOP VIEW

MPEG+SERVO PCB STS21AAST-01-02



BOTTOM VIEW





SCHEMATIC DIAGRAMS A/V DECODER SECTION ONLY ONE SDRAM ASSEMBLY R138 R138 Default operation mode for 705: Setup short on 1-2 of JP3 and JP4; Setup short on 2-3 of JP5. CPU SELECT MODE Default operation mode for 703: Setup short on 1-2 of JP3; Setup short on 2-3 of JP4 and JP5 P44/A00 P44/A0 Flash serial programming for blank 703: RAMADOS RAMADO Setup short on 1-2 of JP5; Setup short on 2-3 of JP3 and JP4. R238 R238 RAMOATI2 RAMOATI3 VDDP RAMOATI3 RAMCATI3 RAMCATI3 RAMCATI3 RAMCATI4 RAMCATI4 RAMCATI4 RAMCATI4 RAMCATI4 RAMCATI4 RAMCATI5 RAMCATIS RAMCATI C105 \ 104 C89 (104 D13 C82 (104) ZR36705 ZR36732 R147 R158 75(1%) C83 / 0.22uF R150 75(1%) 3.3V R157 R131 10K R161 75(1%) C85 (104 | 3.3V 5V *** C109 (24p MONITOR ∑7M+2 ≥ C110 (24p DEBBUG TERMINAL R127____33 R166 R168 R170 FRONT PANEL R175 33

NOTES: 1. All resistance values are indicated in "ohms" (k=1000 ohms. M=1000 Kohms). 2. All capacitance values are indicated in "µF" (p=10⁶µF).

BS-G-Y CVBS-C Y-R-V C-B-U AN AMCLK SPOF-(45 ASDATI ASDATI ASDATA ALRCLK ABCLK WHEN 703 FLASH

P20 SHOULD BE SHORTED FOR

PRE-PROGRAMMED 703. P20 AND P21 SHOULD BE SHORTED FOR BLANK 703. FOR DEBUGGING CONNECT 2 TO 1. FOR RELEASE

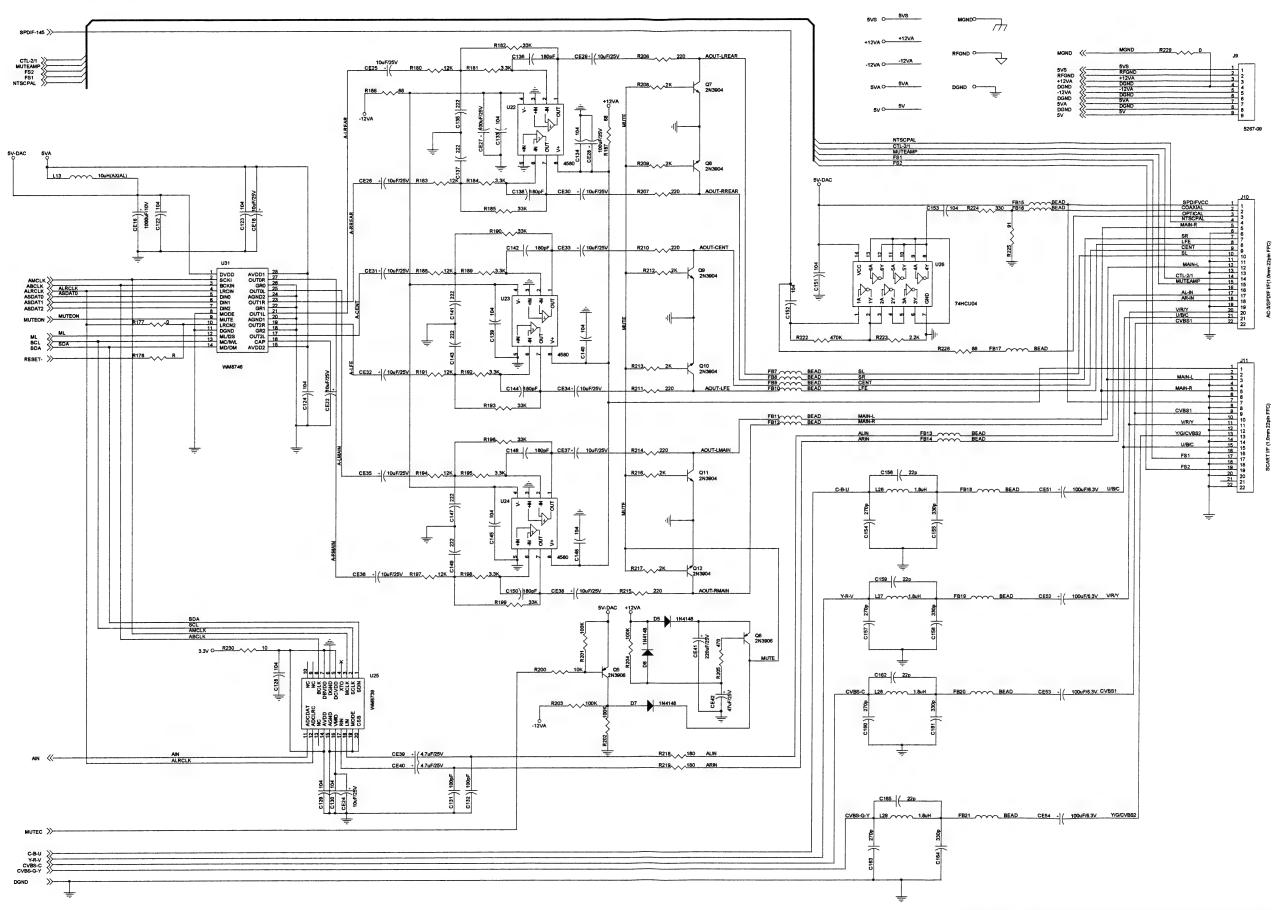
CONNECT 2 TO 3.

3.37

R122 1K

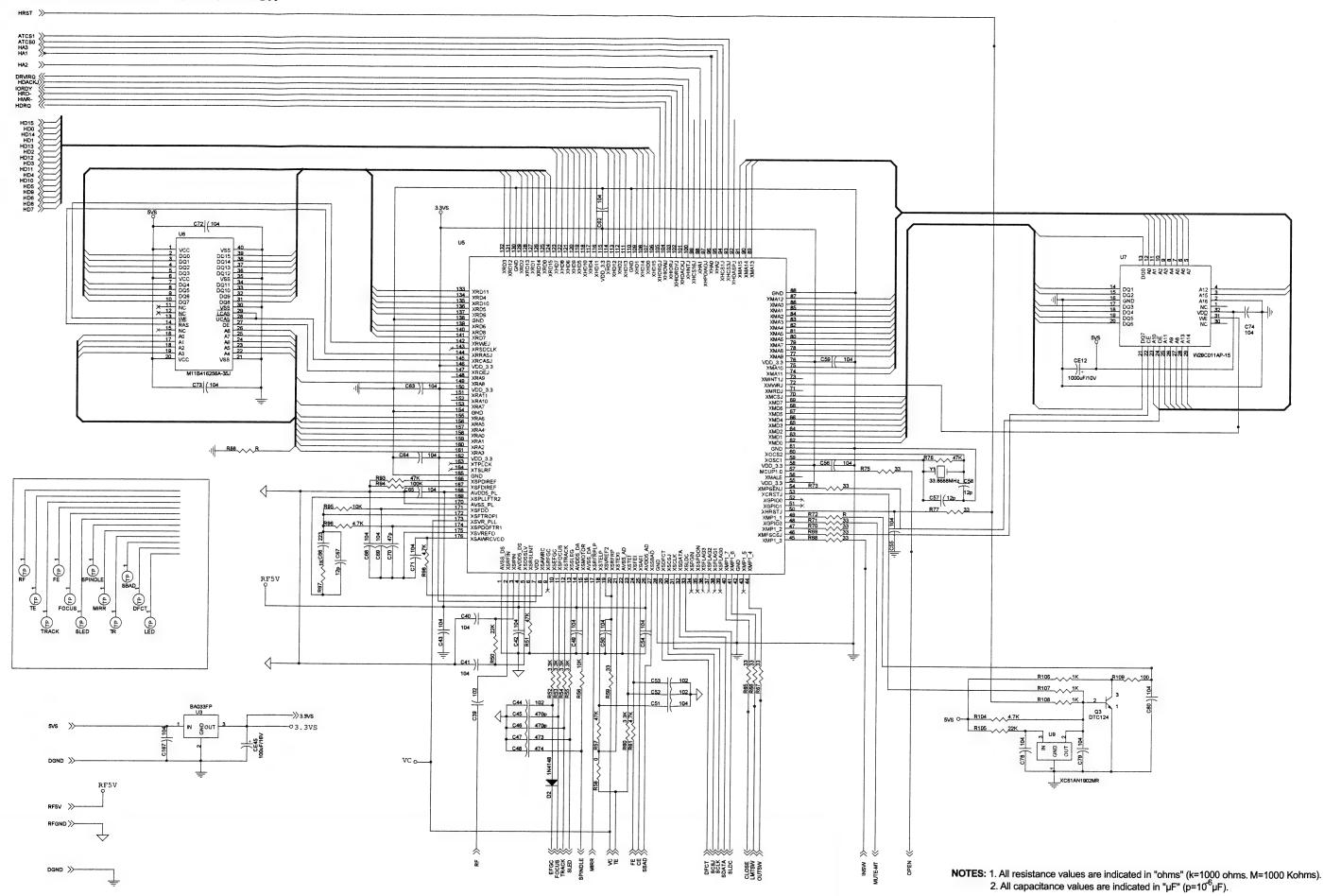
3.3V O R126 10K

A/V OUTPUT SECTION

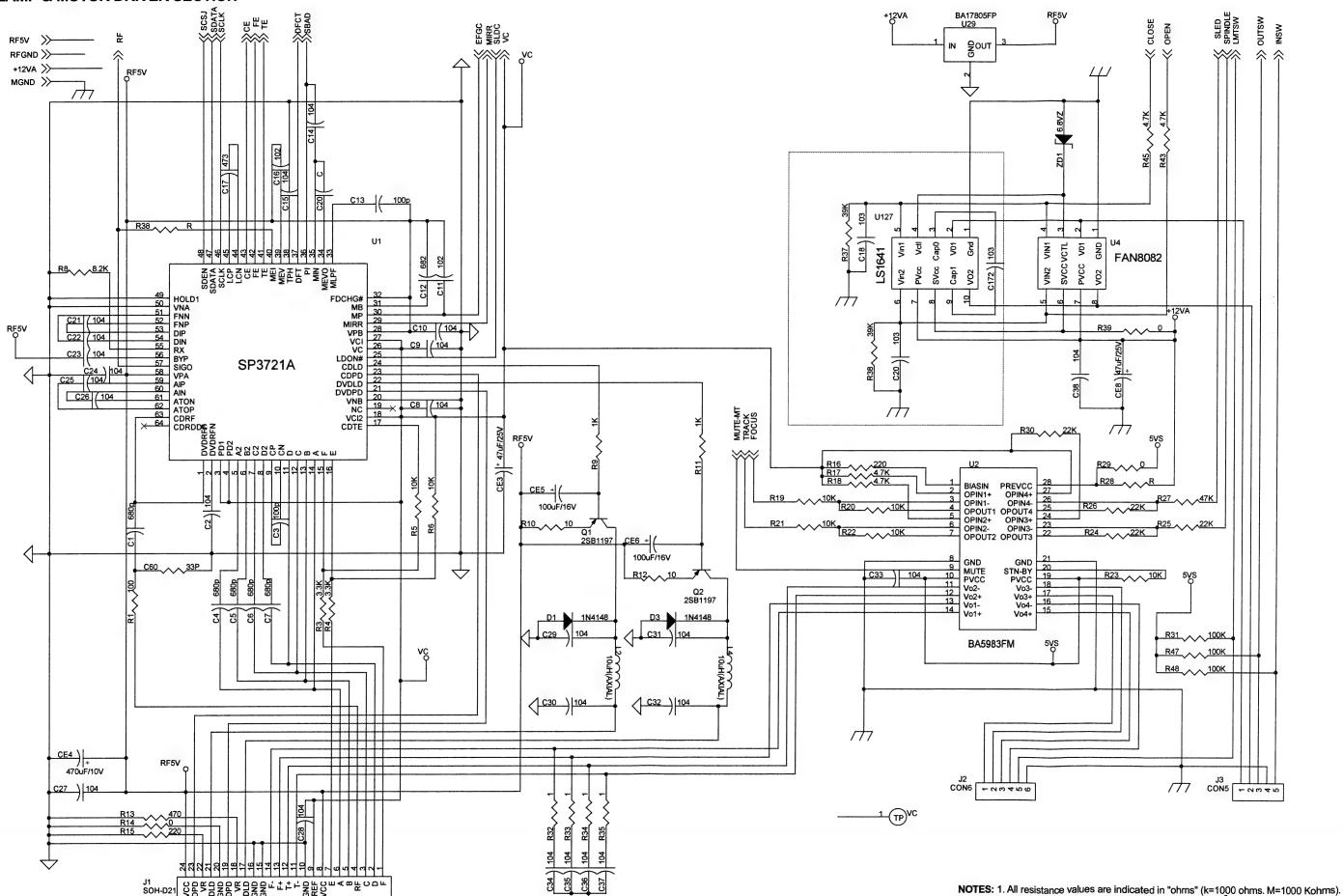


NOTES: 1. All resistance values are indicated in "ohms" (k=1000 ohms. M=1000 Kohms). 2. All capacitance values are indicated in " μ F" (p=10⁶ μ F).

CHANNEL DECODER & U-COM SECTION

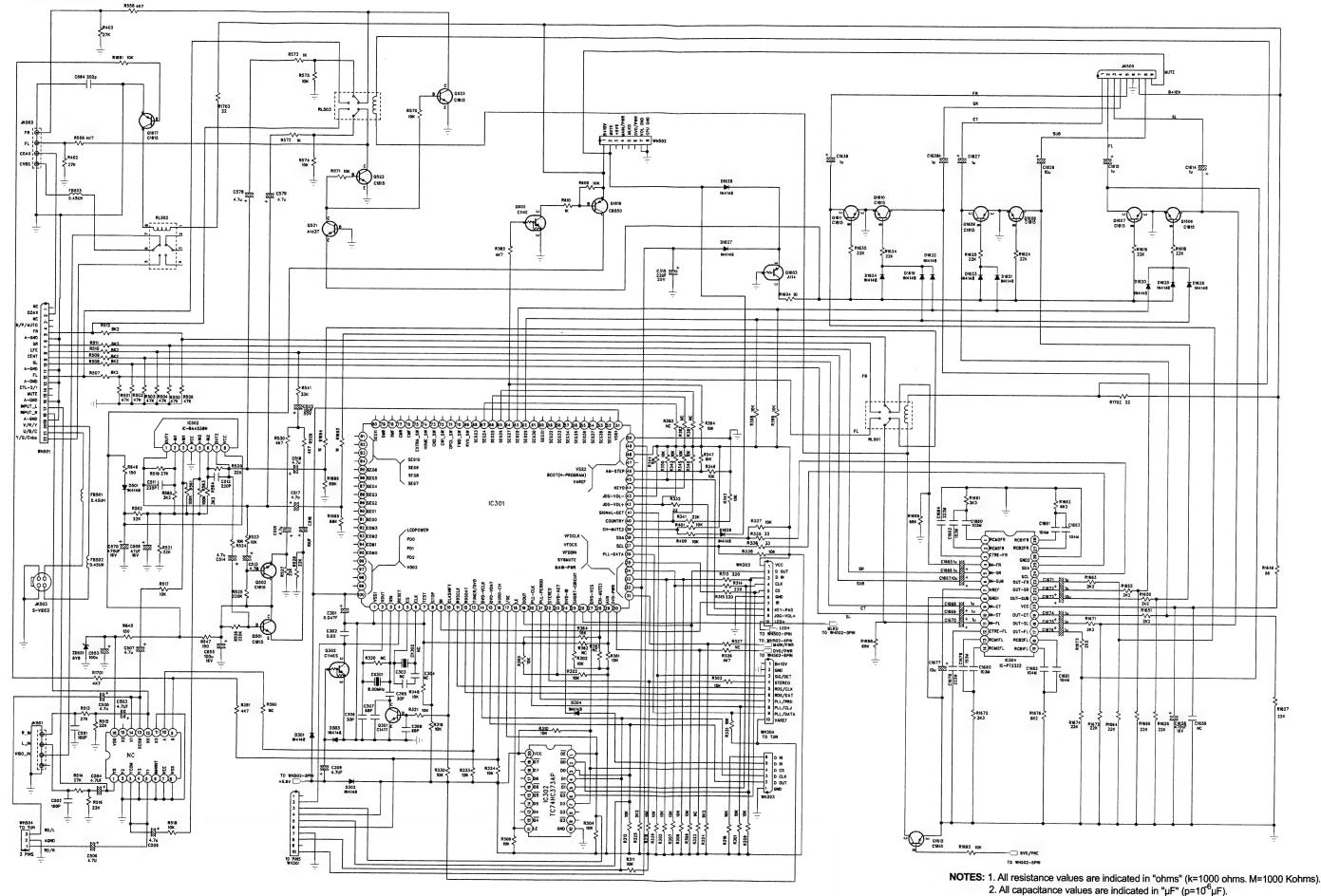


PREAMP & MOTOR DRIVER SECTION

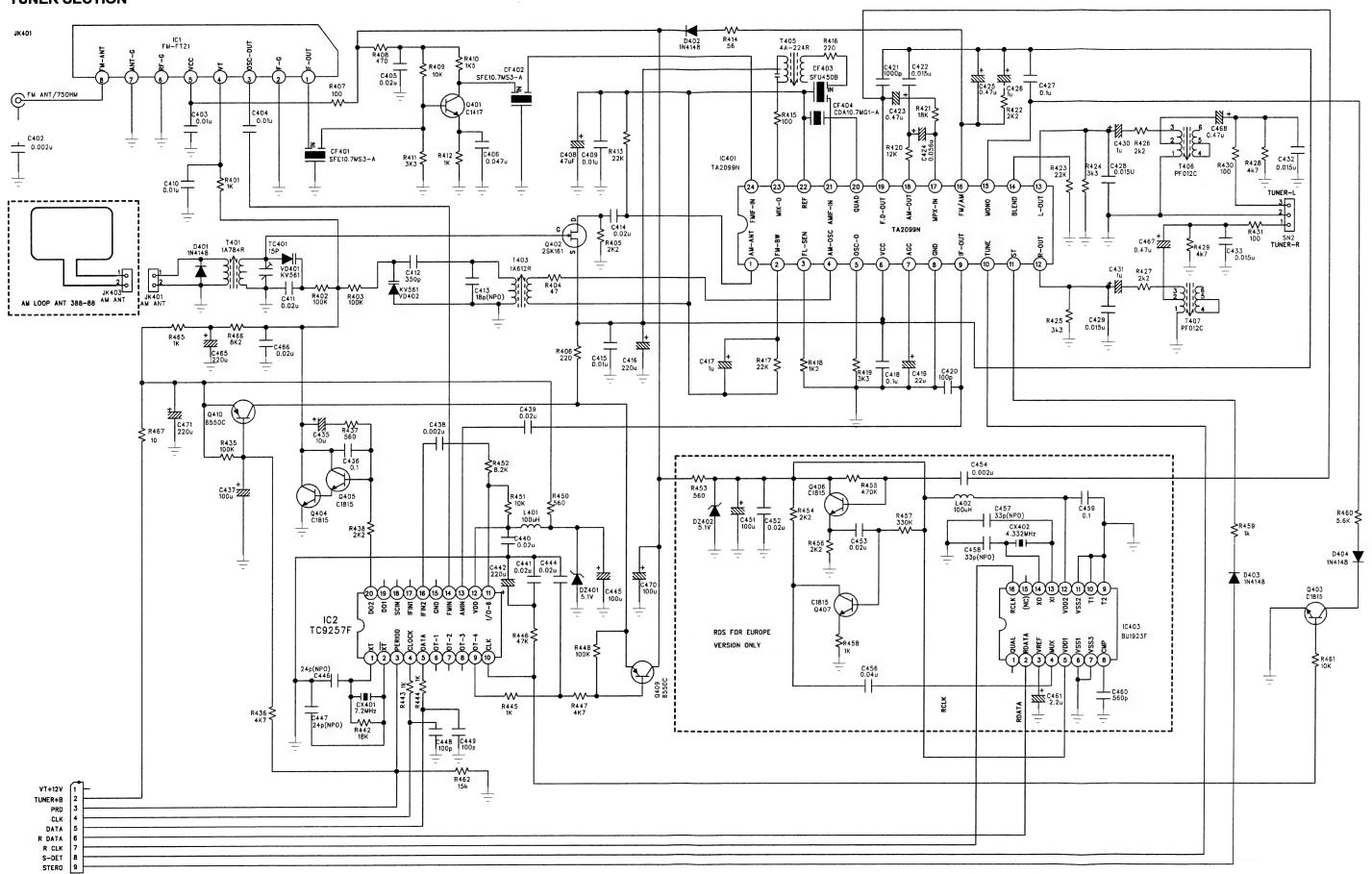


2. All capacitance values are indicated in "μF" (p=10⁻⁶μF).

CPU SECTION



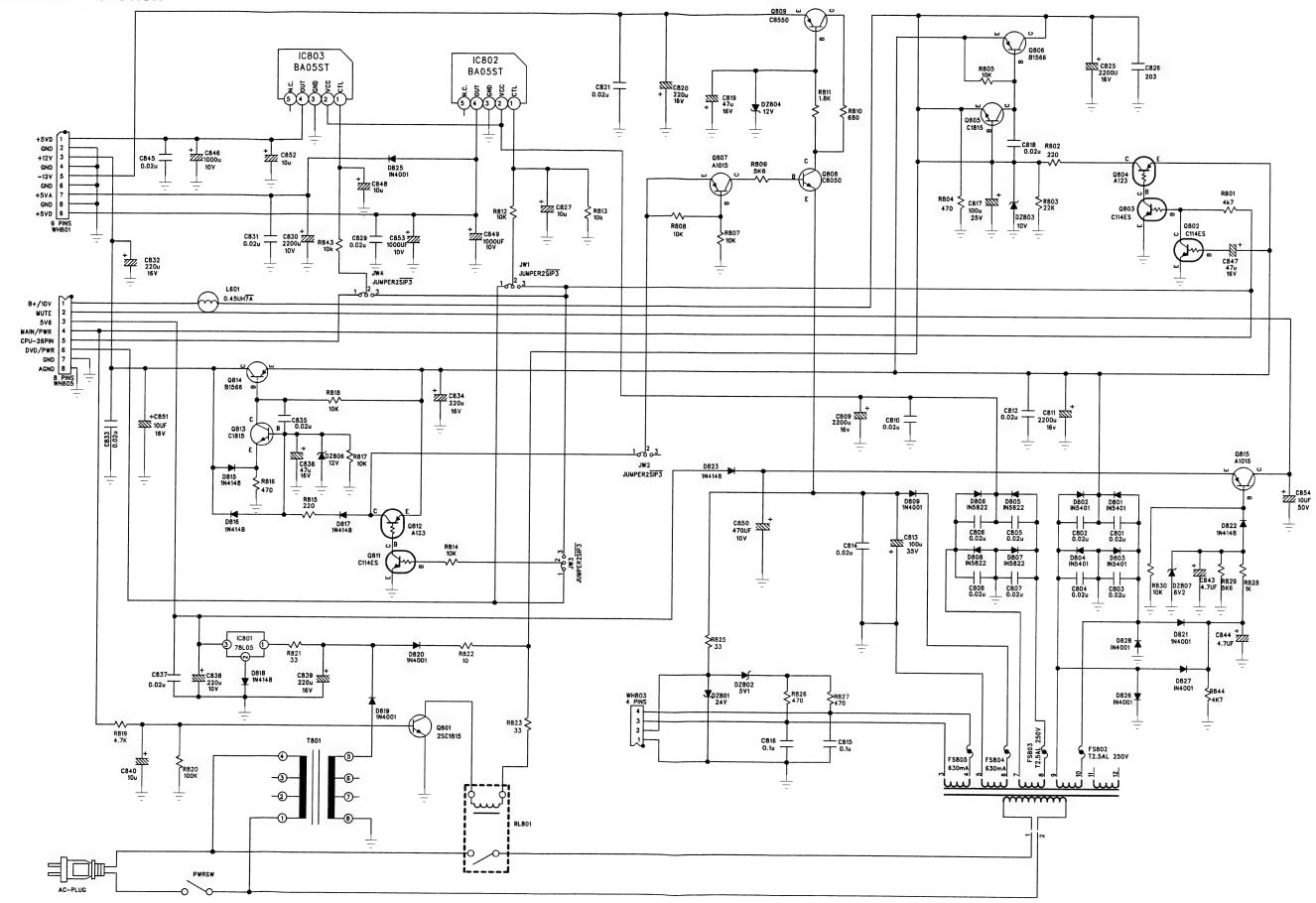
TUNER SECTION



NOTES: 1. All resistance values are indicated in "ohms" (k=1000 ohms. M=1000 Kohms).

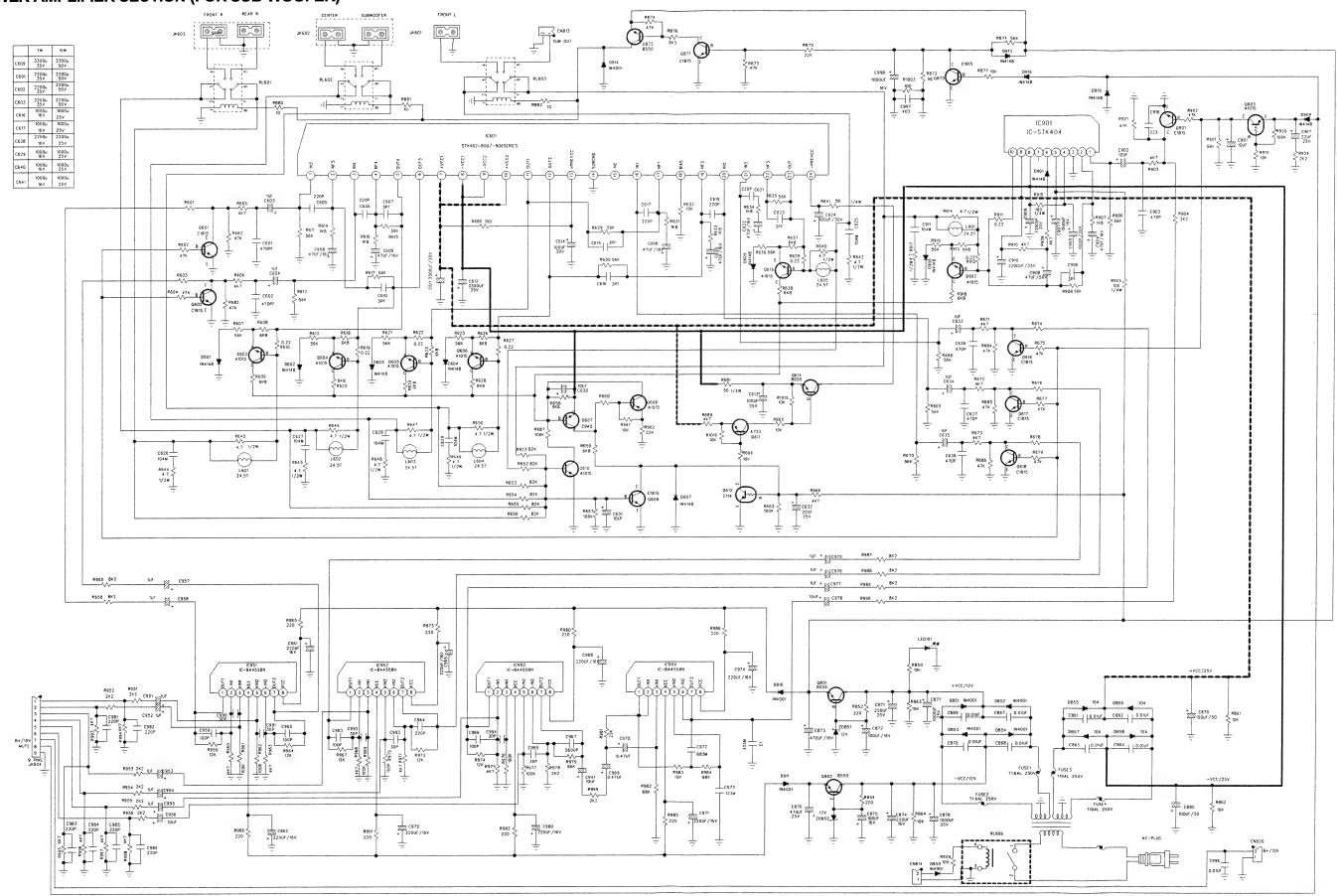
2. All capacitance values are indicated in "µF" (p=10⁶µF).

POWER SUPLLY SECTION



NOTES: 1. All resistance values are indicated in "ohms" (k=1000 ohms. M=1000 Kohms). 2. All capacitance values are indicated in " μ F" (p=10⁶ μ F).

POWER AMPLIFIER SECTION (FOR SUB-WOOFER)



NOTES: 1. All resistance values are indicated in "ohms" (k=1000 ohms. M=1000 Kohms).

2. All capacitance values are indicated in "µF" (p=10⁶µF).

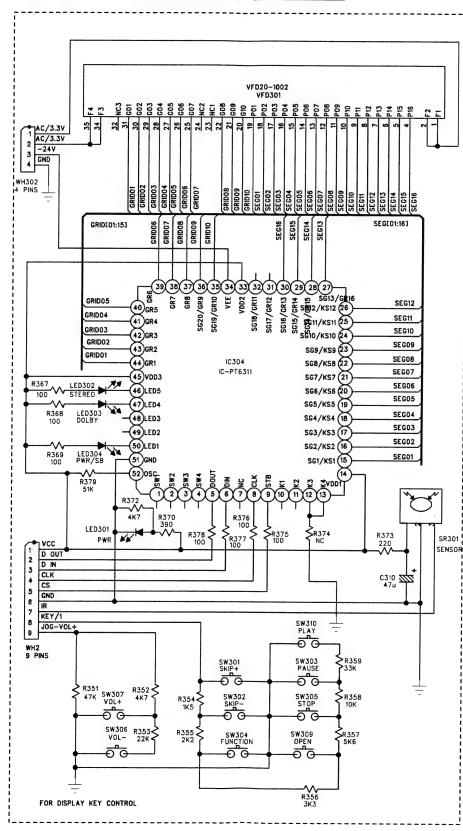
52

CONTROL SECTION

	AAS	AAST	AUX IN
R303	NC	10K	
R349	10K	NC	
R361			10K
R362			NC
R363	NC	10K	
R364	10K	NC	

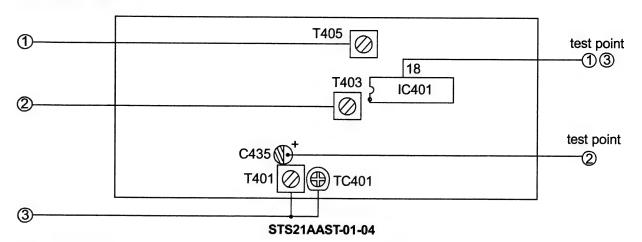
COUNTRY	R340	R342	R341
USA1	20K	100K	10K
USA2	20K	39K	5K6
EUROPE1	20K	5K6	27K
EPR0E2	20K	12K	3K9

AM STEP	R347	R346
S/W CHG	47K	OPEN
ORIG STEP	47K	47K
TOG STEP	OPEN	47K



ALIGNMENT SET-UP PROCEDURES

TUNER SECTION

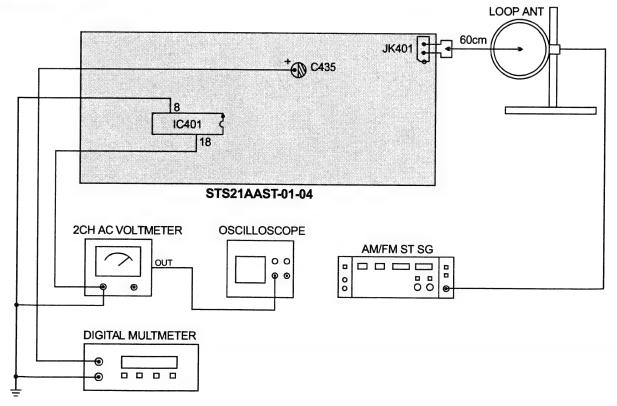


- 1. AM IF Adjustment
 Test point: IC401 (TA2099N)
 Adjustment location: T405
 T405 ------450±3kHz
- 2. MW Frequency Range Adjustment
 Test point: C435 ⊕
 Adjustment location: T403
 Set the tuner frequency to be 531kHz.
 Adjust T403 so that the test point voltage is 1.7±0.05V.

3. MW Tracking Adjustment
Test point: IC402 (TA2099N) 18 PIN
Adjustment location: T401, TC401
T401 ------- 603kHz waveform max.
TC401 ------ 1404kHz waveform max.

EQUIPMENT CONNECTION DIAGRAM

MW SECTION



VOLTAGE CHART

CPU & DISPLAY CONTROL SECTION TEST CONDITION: DVD PLAY

IC301 (TMP87EP26F)

10001 (Time Of Er										
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DVD PLAY	0	2.43	2.15	4.75	0	0.24	0	4.01	4.61	0
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	0.06	0.06	0.03	3.30	0.03	4.88	0.04	4.92	4.88	4.92
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
DVD PLAY	4.92	4.88	0	4.92	4.88	0	3.30	4.92	0.04	4.89
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40
DVD PLAY	4.88	0.04	0.03	4.88	4.84	0.04	4.88	4.88	0	2.81
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	50
DVD PLAY	4.88	4.02	4.88	4.88	0	2.44	0.16	4.87	0	0
PIN'S NUMBER	51	52	53	54	55	56	57	58	59	60
DVD PLAY	4.92	1	1	1	1	1	1	1	1	1
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70
DVD PLAY	1	1	1	1	1	1	/	1	1	1
PIN'S NUMBER	71	72	73	74	75	76	77	78	79	80
DVD PLAY	1	1	1	1	1	1	1	1	1	1
PIN'S NUMBER	81	82	83	84	85	86	87	88	89	90
DVD PLAY	1	- 1	1	1	1	1	1	1	1	1
PIN'S NUMBER	91	92	93	94	95	96	97	98	99	100
DVD PLAY	1	1	1	1	1	1	1	1	1	4.92

IC302 (TC74HC373AP)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DVD PLAY	0.02	0.01	0.02	3.29	4.98	4.97	3.29	0.15	0	0
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	4.29	0	0.15	0.15	0	0	0.15	0	0	4.99

TRANSISTOR	Q3	01(2SC14	17)	Q302(DTC114ES)			
	E C B		E	С	В		
DVD PLAY	0	0.24	0	0	4.21	0	

IC304 (PT6311)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DVD PLAY	2.18	2.09	1.95	1.94	4.33	4.99	0	4.99	4.99	2.01
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	1.95	0	0	4.99	1	1	1	1	1	1
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
DVD PLAY	1	1	1	1	1	1	1	1	1	1
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40
DVD PLAY	1	1	4.99	-25.10	1	1	1	1	1	1
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	50
DVD PLAY	1	1	1	1	5.00	5.00	5.00	5.00	5.00	4.80
PIN'S NUMBER	51	52				*******	•	***************************************		
DVD PLAY	0	2.69	1							

POWER AMP. SECTION TEST CONDITION: DVD PLAY

IC502 (BA4558N)

PIN'S NUMBER	1	2	3	4	5	6	7	8
DVD PLAY	1.07	0.95	0.91	0	0.91	0.95	1.01	1.64

VOLTAGE CHART - CONTINUED

IC504 (PT2322-S)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DVD PLAY	4.20	4.22	4.20	4.19	4.19	4.20	4.21	0	4.19	4.19
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	4.20	4.21	4.22	4.21	4.22	4.22	4.22	4.22	4.22	8.46
PIN'S NUMBER	21	22	23	24	25	26	27	28		
DVD PLAY	4.22	4.22	4.23	4.32	4.32	0	4.21	4.22	1	

IC803 (BA05ST)

PIN'S	NUMBER	1	2	3	4	5
DV	D PLAY	4.20	7.86	0	5.00	0

IC802 (BA05ST)

PIN'S NUMBER	1	2	3	4	5
DVD PLAY	2.79	7.80	0	5.00	0

IC801 (LM78L05ACZ)

PIN'S NUMBER	1	2	3
DVD PLAY	5.68	0.60	11.48

TRANSISTOR	Q8	02(C1145	ES)	Q	03(C114E	S)	Q804(A114)			
	E	С	В	E	С	В	E	С	В	
DVD PLAY	0	2.08	0.13	0	0	2.08	14.18	13.80	0	
TRANSISTOR	Q	805(C181	5)	Q	806(B156	6)	Q	807(A101	5)	
	E	С	В	E	С	В	E	С	В	
DVD PLAY	9.95	13.41	10.47	14.11	10.65	13.56	14.09	13.65	13.08	
TRANSISTOR	Q	808(C805	0)	Q	809(C855	0)	QE	11(C114E	S)	
	E	С	В	E	С	В	E	С	В	
DVD PLAY	18.90	18.80	18.23	11.35	11.37	12.03	0	0	2.70	
TRANSISTOR		2812(A12	3)	Q	813(C181	5)	Q	814(B156	6)	
	E	С	В	E	С	В	E	С	В	
DVD PLAY	14.02	14.04	0	11.50	13.55	12.05	14.16	12.21	13.43	
TRANSISTOR	Q	815(A101	5)							
	E	С	В	1						
DVD PLAY	5.61	0	5.65							

MPEG+SERVO SECTION TEST CONDITION: DVD PLAY

U12 (S-24C01BFS)

PIN'S NUMBER	1	2	3	4	5	6	7	8
DVD PLAY	0	0	0	0	3.75	0	0	4.94

U13 (SST39VF800A)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DVD PLAY	0.70	0.50	0.60	0.70	0.60	2.80	0	2.82	0	0
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	3.20	3.30	0	0	0	0.40	0.70	2.50	2.30	0.40
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
DVD PLAY	0.65	1.00	1.00	1.92	1.45	0	0	1.26	1.28	1.44
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40
DVD PLAY	1.58	0.64	1.50	1.22	1.25	1.08	3.30	0	0.74	0.71
PIN'S NUMBER	41	42	43	44	45	46	47	48		
DVD PLAY	0	1.04	0.81	2.04	1.70	0	3.30	0.19		

VOLTAGE CHART - CONTINUED

ı	J1	6	(ZF	₹3	67	32	P	Q	С

0 16 (ZR36/32PG	(C)									
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DVD PLAY	0	0.00	3.30	3.30	3.27	3.27	3.27	3.27	2.16	0
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	3.27	1.85	3.27	0	3.27	3.30	2.10	1.06	3.31	0.82
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
DVD PLAY	1.63	1.40	1.39	1.23	1.49	3.30	1.15	1.21	1.78	1.54
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40
DVD PLAY	3.22	3.30	1.85	1.24	0	0.35	3.25	3.30	3.21	0
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	50
DVD PLAY	0.49	0.54	0.53	3.30	0.44	0.45	0.35	0.49	0	0.37
PIN'S NUMBER	51	52	53	54	55	56	57	58	59	60
DVD PLAY	0.27	3.30	2.12	0.35	0.51	0	3.04	3.30	3.14	3.16
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70
DVD PLAY	3.23	3.19	1.85	0	0	1.75	3.30	1.71	0	1.35
PIN'S NUMBER	71	72	73	74	75	76	77	78	79	80
DVD PLAY	3.31	1.40	0	1.40	1.48	1.27	3.31	1.40	1.61	0
PIN'S NUMBER	81	82	83	84	85	86	87	88	89	90
DVD PLAY	1.63	1.53	3.29	0.52	1.71	0	2.30	1.71	3.29	0.64
PIN'S NUMBER	91	92	93	94	95	96	97	98	99	100
DVD PLAY	1.42	1.66	0.07	3.28	3.04	1.64	0	3.28	3.24	0.26
PIN'S NUMBER	101	102	103	104	105	106	107	108	109	110
DVD PLAY	0.77	1.25	1.03	3.28	1.12	1.47	0	1.22	0	0
PIN'S NUMBER	111	112	113	114	115	116	117	118	119	120
DVD PLAY	0	3.28	0.29	0	0	1.82	1.59	0	1.61	1.59
PIN'S NUMBER	121	122	123	124	125	126	127	128	129	130
DVD PLAY	1.82	3.29	0	3.29	0	3.28	1.70	0	0	3.29
PIN'S NUMBER	131	132	133	134	135	136	137	138	139	140
DVD PLAY	1.63	0	0	0	2.90	3.29	1.07	0	0	1.04
PIN'S NUMBER	141	142	143	144	145	146	147	148	149	150
DVD PLAY	1.64	3.29	1.82	0	0	0.50	0	0.53	0.53	0
PIN'S NUMBER	151	152	153	154	155	156	157	158	159	160
DVD PLAY	2.57	0	0	2.20	1.96	1.65	2.33	0	1.65	0

U11 (ZR36705TQC)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DVD PLAY	0	0	3.29	3.29	3.29	3.38	3.29	3.30	3.29	3.29
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	1.45	3.29	3.29	3.29	0	0	0	0	3.29	3.29
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
DVD PLAY	2.86	0.67	3.30	3.29	3.86	3.86	5.07	5.07	3.37	3.20
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40
DVD PLAY	3.15	3.43	3.32	4.67	2.35	3.43	1.85	1.93	3.16	0
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	50
DVD PLAY	3.80	2.40	3.29	1.80	0.06	1.22	0.05	0	0	0
PIN'S NUMBER	51	52	53	54	55	56	57	58	59	60
DVD PLAY	0	0	0	0	0	0	0	0	1.60	2.53
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70
DVD PLAY	3.29	3.29	3.29	3.29	0	5.04	0.04	3.29	5.05	3.29
PIN'S NUMBER	71	72	73	74	75	76	77	78	79	80
DVD PLAY	0	3.29	3.11	3.11	2.03	5.05	5.05	3.29	5.05	5.05
PIN'S NUMBER	81	82	83	84	85	86	87	88	89	90
DVD PLAY	5.05	3.30	3.29	3.29	3.27	0.53	2.91	3.63	0.00	1.43
PIN'S NUMBER	91	92	93	94	95	96	97	98	99	100
DVD PLAY	1.50	3.29	0.15	3.29	3.29	3.29	3.29	3.29	4.32	0.02

VOLTAGE CHART - CONTINUED

U17 (K4S161622D)

PIN'S NUMBER	1	2	3		T					
	2.22			4	5	6	7	8	9	10
DVD PLAY	3.30	1.45	0.70	0	0.77	0.75	3.30	2.10	0.82	0
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	0.78	0.90	3.30	0	3.19	3.23	3.16	3.08	0.52	1.74
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
DVD PLAY	0	0	0.45	0	3.30	0	0.55	0.55	0.53	0.55
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40
DVD PLAY	0.26	0.30	0	3.30	1.73	0	0	3.30	1.45	1.23
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	50
DVD PLAY	0	1.20	1.15	3.30	1.65	1.16	0	1.16	0.86	0

U25 (WM8739EDS)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DVD PLAY	3.76	0	1.68	0.25	3.15	0	3.15	1.65	0.37	0.69
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	0.97	1.65	0	3.15	0	1.56	1.56	1.57	0	0

U31 (WM8746EDS)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DVD PLAY	4.32	1.68	1.65	1.65	1.66	1.65	1.65	0	0	1.65
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	0	3.30	0	3.75	4.35	2.17	2.18	0	2.18	0
PIN'S NUMBER	21	22	23	24	25	26	27	28		
DVD PLAY	2.18	0	2 18	0	2 18	0	2 18	4	1	

U22 (NJM4580E)

PIN'S NUMBER	1	2	3	4	5	6	7	8
DVD PLAY	0	0	0	10.43	0	0	0	11.23

U23 (NJM4580E)

020 (11011110002)								
PIN'S NUMBER	1	2	3	4	5	6	7	8
DVD PLAY	0	0	0	10.43	0	0	0	11.23

1124 (N.IM4580F)

024 (NOM4300L)								
PIN'S NUMBER	1	2	3	4	5	6	7	8
DVD PLAY	0	0	0	10.43	0	n	0	11 23

U26 (74HCU04AF)

PIN'S NUMBER	1	2	3	4	5	6	7
DVD PLAY	2.03	2.10	2.10	2.16	2.16	2.15	0
PIN'S NUMBER	8	9	10	11	12	13	14
DVD PLAY	3.16	2.15	2.16	2.15	2.16	2.15	4.32

U7 (W29EE512P-70)

PIN'S NUMBER	1	2	3	4	5	6	7	8
DVD PLAY	0	0	1.65	1.88	2.10	2.09	1.59	1.75
PIN'S NUMBER	9	10	11	12	13	14	15	16
DVD PLAY	2.00	1.96	1.97	1.96	1.61	1.86	1.69	0
PIN'S NUMBER	17	18	19	20	21	22	23	24
DVD PLAY	1.43	1.65	2.00	0	1.76	0	1.80	1.70
PIN'S NUMBER	25	26	27	28	29	30	31	32
DVD PLAY	1.25	1.81	1.77	0.70	2.24	0	3.33	4.91

VOLTAGE CHART - CONTINUED

U1 (M5703T/SP3721A)

0 : (mo: 00 mo: 0								
PIN'S NUMBER	1	2	3	4	5	6	7	8
DVD PLAY	3.56	3.56	2.51	2.51	3.50	3.50	3.50	3.50
PIN'S NUMBER	9	10	11	12	13	14	15	16
DVD PLAY	3.52	0	0	2.54	2.54	2.57	3.01	2.53
PIN'S NUMBER	17	18	19	20	21	22	23	24
DVD PLAY	4.29	2.51	0	0	0.17	3.33	0	5.00
PIN'S NUMBER	25	26	27	28	29	30	31	32
DVD PLAY	0	2.51	2.51	5.01	0.12	2.73	2.56	5.01
PIN'S NUMBER	33	34	35	36	37	38	39	40
DVD PLAY	0	4.24	0	3.20	0	3.34	4.95	3.23
PIN'S NUMBER	41	42	43	44	45	46	47	48
DVD PLAY	2.52	2.49	1.83	4.28	3.96	3.33	0	0
PIN'S NUMBER	49	50	51	52	53	54	55	56
DVD PLAY	0	0	2.50	2.52	0	3.47	0.59	2.34
PIN'S NUMBER	57	58	59	60	61	62	63	64
DVD PLAY	2.98	5.01	3.53	3.53	3.80	3.80	3.54	1.41

U5 (M5705)

US (MS/US)										
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DVD PLAY	0	2.50	2.48	5.01	2.49	2.51	3.34	1.26	2.49	3.12
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	2.56	2.48	2.51	5.01	2.11	0	0.10	2.51	2.51	2.51
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
DVD PLAY	2.52	0	2.52	2.49	1.95	5.01	3.21	0	0	0
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40
DVD PLAY	3.34	0	0	2.62	3.34	0	0	0	3.34	1.65
PIN'S NUMBER	41	42	43	44	45	46	47	48	49	50
DVD PLAY	4.86	0	0	4.86	0	0	2.62	3.33	2.59	3.31
PIN'S NUMBER	51	52	53	54	55	56	57	58	59	60
DVD PLAY	2.60	2.60	0	0	0	2.59	1.66	0	0	0
PIN'S NUMBER	61	62	63	64	65	66	67	68	69	70
DVD PLAY	0	1.59	1.89	1.72	0.22	1.70	2.01	2.01	1.76	2.62
PIN'S NUMBER	71	72	73	74	75	76	77	78	79	80
DVD PLAY	2.59	0	0	0	1.78	3.34	1.82	1.82	2.14	2.10
PIN'S NUMBER	81	82	83	84	85	86	87	88	89	90
DVD PLAY	1.51	1.75	2.00	1.97	1.97	1.98	1.91	0	0.60	2.23
PIN'S NUMBER	91	92	93	94	95	96	97	98	99	100
DVD PLAY	1.63	2.60	3.30	3.09	1.05	1.53	2.60	1.90	0.10	0
PIN'S NUMBER	101	102	103	104	105	106	107	108	109	110
DVD PLAY	4.09	3.99	1.25	0	0	1.71	1.35	0	1.58	0
PIN'S NUMBER	111	112	113	114	115	116	117	118	119	120
DVD PLAY	0.88	1.26	0.75	1.30	3.34	0	1.68	0	0.99	0.66
PIN'S NUMBER	121	122	123	124	125	126	127	128	129	130
DVD PLAY	0	0	0	0	0	1.89	1.90	0	1.81	0
PIN'S NUMBER	131	132	133	134	135	136	137	138	139	140
DVD PLAY	1.81	1.58	0	1.83	0	1.94	1.89	0	0	0
PIN'S NUMBER	141	142	143	144	145	146	147	148	149	150
DVD PLAY	0	0	1.70	0	3.09	3.34	0	0	0.30	0
PIN'S NUMBER	151	152	153	154	155	156	157	158	159	160
DVD PLAY	0	0	0	0	0.25	0.20	0	0	0	0
PIN'S NUMBER	161	162	163	164	165	166	167	168	169	170
DVD PLAY	0	3.34	0.12	0.11	0	2.51	2.51	0	2.68	0
PIN'S NUMBER	171	172	173	174	175	176				
DVD PLAY	2.51	2.51	2.51	2.51	2.51	1.75				
				2.0.	2.01	1.10				

VOLTAGE CHART - CONTINUED

U3 (BA033FP)

PIN'S NUMBER	1	2	3
DVD PLAY	4.95	0	3.35

U9 (XC61AN1902MR)

PIN'S NUMBER	1	2	3
DVD PLAY	4.88	3.47	0

U2 (BA5983FM)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DVD PLAY	2.49	2.51	2.51	2.46	2.51	0	2.53	0	3.32	4.88
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	2.40	2.53	2.51	2.41	2.24	2.08	3.52	0.76	4.88	3.68
PIN'S NUMBER	21	22	23	24	25	26	27	28		
DVD PLAY	0	2.84	2.51	2.51	2 48	2.51	2.51	4 90	1	

U29 (BA17805FP)

PIN'S NUMBER	1	2	3
DVD PLAY	11.44	0	5.02

U4 (FAN8082)

PIN'S NUMBER	1	2	3	4	5	6	7	8	l
DVD PLAY	0	0.37	0.19	1.44	1.44	12.16	12.17	0.37	ı

U27 (LD1117S)

PIN'S NUMBER	1	2	3	4	
DVD PLAY	1.85	1.85	3.31	0.59	

U28 (LD1117S33C)

PIN'S NUMBER	1	2	3	4
DVD PLAY	0	3.30	4.95	3.30

U6 (M11B416256A-35J)

00 1111110200										
PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
DVD PLAY	4.94	1.54	1.54	1.10	1.30	4.95	0.80	0.56	0.65	0.54
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
DVD PLAY	0	0	3.33	3.31	0	0.10	0.20	0.11	0.15	4.94
PIN'S NUMBER	21	22	23	24	25	26	27	28	29	30
DVD PLAY	0	0.24	0.25	0.30	0.23	0.33	0.22	3.18	3.21	0
PIN'S NUMBER	31	32	33	34	35	36	37	38	39	40
DVD PLAY	1.97	1.94	1.94	1.95	0	1.83	1.85	0	1.93	0

TUNER SECTION

TEST CONDITION: SET AM/FM ON ONE FREQUENCY

IC401 (TA2099N)

PIN'S NUMBER	1	2	3	4	5	6	7	8
AM	1.97	2.72	0.11	1.97	1.34	6.37	0.48	0
FM	1.95	2	0	2	0.97	7.43	1.29	0
PIN'S NUMBER	9	10	11	12	13	14	15	16
AM	4.96	0.04	5.68	0.76	0.77	0.11	4.89	4.92
FM	4.98	4	4.13	0.77	0.77	0.00	0.52	0.65
PIN'S NUMBER	17	18	19	20	21	22	23	24
AM	1.19	0.48	2.05	1.81	1.97	1.97	6.43	1.97
FM	1.19	1.32	1.99	2.44	1.97	1.97	7.40	1.97

VOLTAGE CHART - CONTINUED

IC402 (TC9257F)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
AM	2.45	2.47	4.29	4.29	0.01	0.14	0.02	0.11	0.02	0.02
FM	2.38	2.41	4.97	4.97	0	0.14	0	0.11	0	0
PIN'S NUMBER	11	12	13	14	15	16	17	18	19	20
AM	4.97	4.97	0	2.43	0	2.44	1.44	1.37	1.15	1.14
FM	0	0	0	2.36	0	2.36	0.17	0.17	0.76	1.08

IC403 (BU1923F)

PIN'S NUMBER	1	2	3	4	5	6	7	8
FM	2.13	2.41	2.30	2.27	4.30	0	0	2.29
PIN'S NUMBER	9	10	11	12	13	14	15	16
FM	0	0	0	4.30	0	2.06	0	2.25

SUB-WOOFER PORTION TEST CONDITION: DVD PLAY

IC601 (STK402)

PIN'S NUMBER	1	2	3	4	5	6	7	8
	-0.16	-0.17	-0.16	-0.17	0	0	30.50	-30.50
PIN'S NUMBER	9	10	11	12	13	14	15	16
	-30.50	30.30	0	0	27.30	0	-26.90	-0.16
PIN'S NUMBER	17	18	19	20	21	22	23	24
	-0.16	-25.50	-0.16	-0.16	-0.16	-0.16	0	-26.90

IC901 (STK404)

PIN'S NUMBER	1	2	3	4	5	6	7	8	9	10
	0.15	0.15	0	-30.30	12.04	1.20	-1.05	-30.50	30.50	0

IC951 (BA4558N)

PIN'S NUMBER	1	2	3	4	5	6	7	8
	0	0	0	-10.60	0	0	0	10.40

IC952 (BA4558N)

TOOUR (BATOOOIT)								
PIN'S NUMBER	1	2	3	4	5	6	7	8
	0	0	0	-10.55	0	0	0	10.43

IC953 (BA4558N)

PIN'S NUMBER	1	2	2	1	E		7	•
THEONOLIN			3	4	0	0		0
	0	0	0	-10.70	0	0	0	10.43

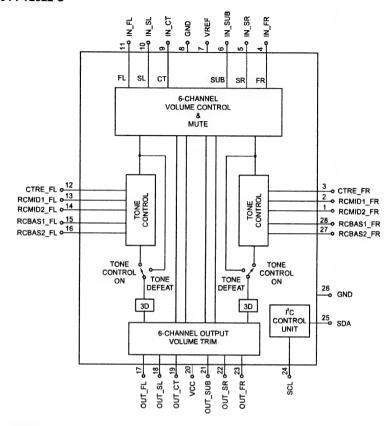
IC954 (BA4558N)

PIN'S NUMBER	1	2	3	4	5	6	7	8
	0.14	0.14	0	10.72	0.15	0.15	0.15	10.43

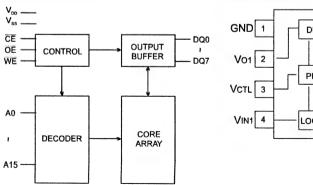
TRANSISTOR	(2851(8050)	Q802(8550)			
	E	С	В	E	С	N	
	11.74	14.36	12.42	-12.05	-15.74	-12 68	

IC BLOCK DIAGRAMS & IC PINS DESCRIPTION

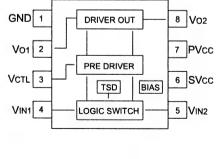
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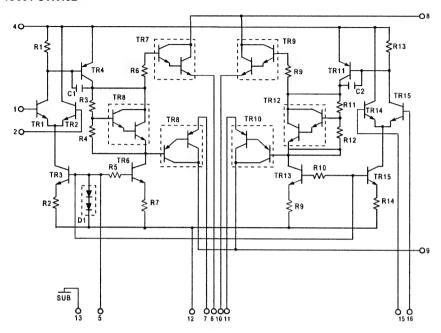
U7 W29EE512P-70



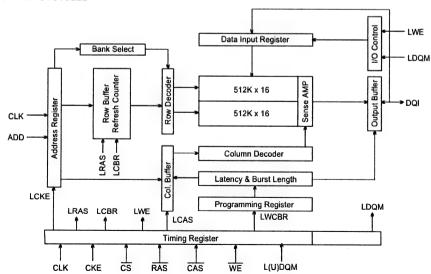
U4 FAN8082



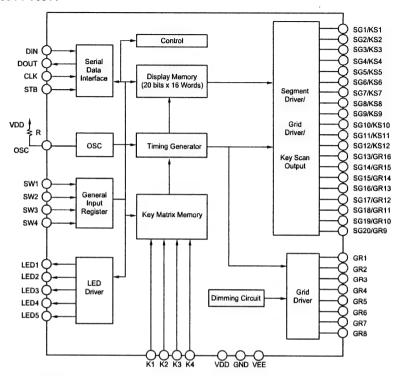
IC601 STK402



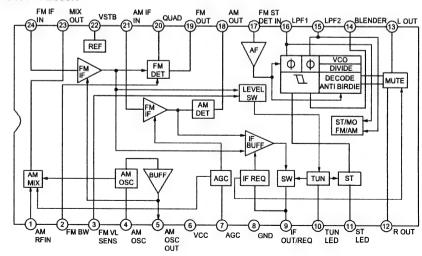
U17 K4S161622D

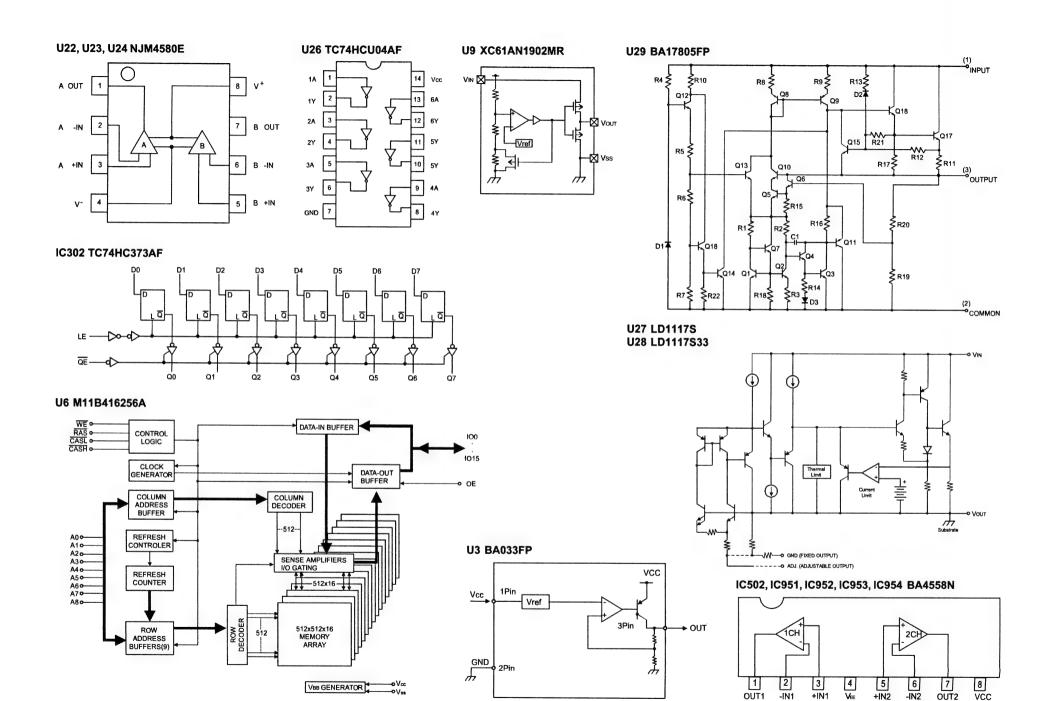


IC304 PT6311

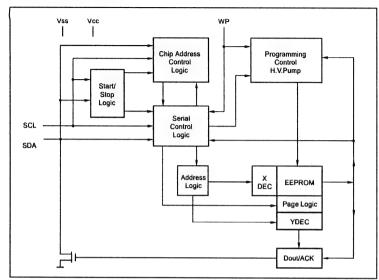


IC401 TA2099N

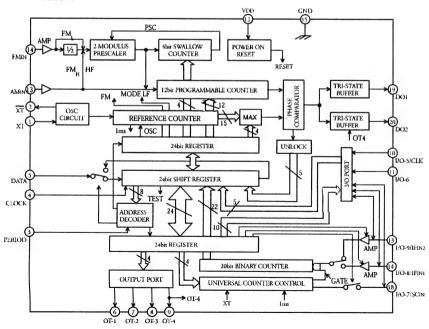




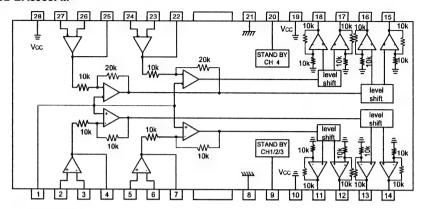
U12 AT24C01A/S-24C01BFJ



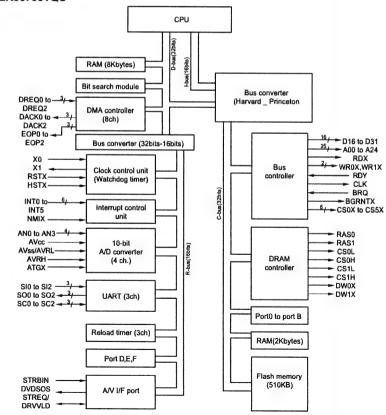
IC402 TC9257F



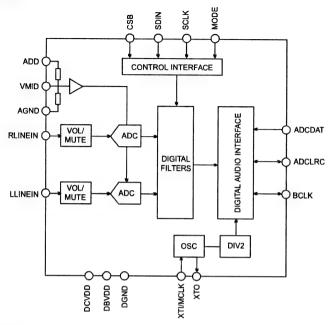
U2 BA5983FM



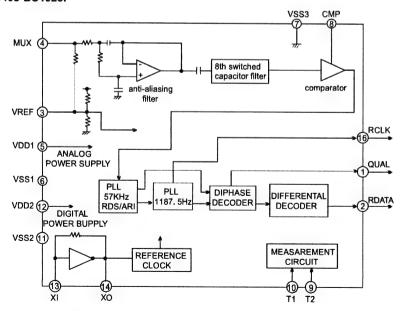
U11 ZR36705TQC



U25 WM8739

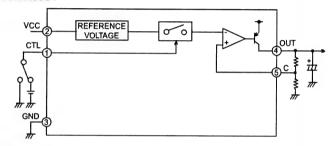


IC403 BU1923F

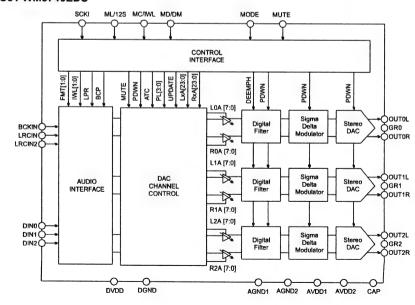


IC801 LM78L05ACZ INPUT O CURRENT GENERATOR SERIES PASS ELEMENT O 2 CURRENT GENERATOR REFERENCE VOLTAGE AMPLIFIER THERMAL PROTECTION

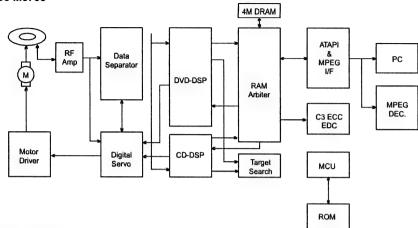
IC802, IC803 BA05ST



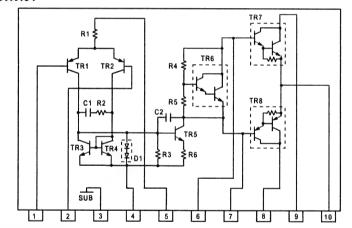
U31 WM8746EDS



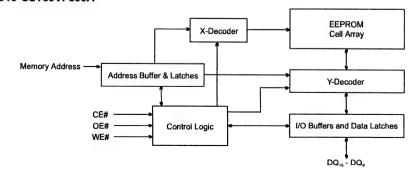
U5 M5705



IC901 STK404



U13 SST39VF800A



IC301 TMP-87EP26F PINS DESCRIPTION

Pin	Port Nome	Pin Name	Description
1	vss	vss	Ground
2	XOUT	XOUT	8MHz
3	XIN	XIN	8MHz
4	/RESET	RESET	
5	P2.2(XTOUT)	cs	CS to Display driver
6	P2.1(XTIN)	CLK	Clock to Display driver
7	TEST	TEST	
8	P2.0 (INT5/STOP)	STOP*	Poewer Down detector
9	P4.0 (INT3/TC3)	IR*	Remote controller
10	P4.1 (PWM/PDO)	CLKSHIFT	Clock shift on tuner
11	P4.2 (/SCK1)	RDSCLK*	RDS Clock input pin
12	P4.3 (SI1)	REDSDAT*	RDS Data input pin
13	P4.4 (SO1)	Tuner/-DVD	Selection of Tuner or DVD
14	P4.5 (/SCK2)	DVD-VCLK*	DVD VFD Clock pin
15	P4.6 (Si2)	DVD-VDAT*	DVD VFD Data pin
16	P4.7 (SO2)		
17	P0.0	/OE	373 OE pin
18	P0.1	LE	373 LE pin
19	P0.2	DOUT	Data input from Display Driver
20	P0.3	PLL-CLK	Tuner Clock pin
21	P0.4	PLL-PERIOD	Tuner Period pin
22	P0.5	STEREO	Tuner STEREO input pin
23	P0.6	DVD-ACT	(Not used)
24	P0.7	DVD-IR	IR signal to DVD
25	P1.0 (/INT0)	SHORT-CIRCUIT	Speaker Short circuit detect
26	P1.1 (INT1)		
27	P1.2 (INT2/TC1)	DVD-VCS	DVD CS to Display driver
28	P1.3 (DVO)	CH-MUTE	
29	P1.4 (PPG)	AUX	Channel Mute pin
30	P1.5 (TC2)	DVD-PWR	AUX Channel Selection
31	P1.6	MAIN-PWR	DVD Power control pin
32	P1.7	SYSMUTE	Main Power control pin
33	P3.0	VRDDIN	System Mute
34	P3.1	VFDCS	Data output to Display driver
35	P3.2	VFDCLK	Clock to Display driver
36	P3.3	PLL-DATA	Tuner Data pin
37	P3.4	SCL	I2C Clock pin for Volume IC
38	P3.5	SDA	I2C Data pin for Volume IC
39	P3.6	CH-MUTE	Channel mute pin
40	P5.0 (AIN0)	COUNTRY	Tuner Country selection
41	P5.1(AIN1)	SIGNAL-DET	Tuner Signal Strength detection
42	P5.2 (AIN2)	JOG-VOL+	Jogger Volume +
43	P5.3 (AIN3)	JOG-VOL-	Jogger Volume -
44	P5.4 (AIN4)	KEY0	Keyboard
45	P5.5 (AIN5)		
46	P5.6 (AIN6)	AM-STEP	Tuner AM Step selection
47	P5.7 (AIN7)		Sup dolosion
48	VAREF	VAREF	Analog VCC
49	BOOT	BOOT(H-Program)	Program Data to EEPROM
50	VSS	VSS	Ground
51	VDD	VDD	+5V
52	P8.0 (SEG39)	700	737
53	P8.1 (SEG38)		
54	P8.2 (SEG37)		

IC301 TMP-87EP26F PINS DESCRIPTION - CONTINUED

Pin	Port Nome	Pin Name	Description
55	P8.3 (SEG36)		
56	P8.4 (SEG35)		
57	P8.5 (SEG34)		
58	P8.6 (SEG33)		
59	P8.7 (SEG32)		
60	P7.0 (SEG31)		
61	P7.1 (SEG30)		
62	P7.2 (SEG29)		
63	P7.3 (SEG28)		
64	P7.4 (SEG27)		
65	P7.5 (SEG26)		
66	P7.6 (SEG25)		
67	P7.7 (SEG24)		
68	P6.0 (SEG23)		
69	P6.1 (SEG22)	RVS_SW	3-CD Tokyo Pigeon Changer
70	P6.2 (SEG21)	FWD_SW	3-CD Tokyo Pigeon Changer
71	P6.3 (SEG20)	OPCL_SW	3-CD Tokyo Pigeon Changer
72	P6.4 (SEG19)	CN1_SW	3-CD Tokyo Pigeon Changer
73	P6.5 (SEG18)	CN2_SW	3-CD Tokyo Pigeon Changer
74	P6.6 (SEG17)	HOME_SW	3-CD Tokyo Pigeon Changer
75	P6.7 (SEG16)	EXTRA_SW	3-CD Tokyo Pigeon Changer
76	P9.0 (SEG15)	CMF	3-CD Tokyo Pigeon Changer
77	P9.1 (SEG14)	DMR	3-CD Tokyo Pigeon Changer
78	P9.2 (SEG13)	DMF	3-CD Tokyo Pigeon Changer
79	P9.3 (SEG12)	DMR	3-CD Tokyo Pigeon Changer
80	SEG11		
81	SEG10		
82	SEG9		
83	SEG8		
84	SEG7		
85	SEG6		
86	SEG5		
87	SEG4		
88	SEG3		
89	SEG2		
90	SEG1		
91	SEG0		
92	COM3		
93	COM2		
94	COM1		
95	СОМО		
96	VLC	LCD Power	
97	PD0		
98	PD1		
99	PD2		
100	VDD	VDD	

U16 ZR36732PQC PINS DESCRIPTION

Pin No.	Pin Name	Type	Description
Reset,Standb	y and idle Status		
124	RESET#	1 1	Reset input.Once de-asserted,the Decoder starts the initialization process.
122	STNDBY#	1	Stand-by input. When asserted together with RESET#, all outputs and bidirectional
	OTTO DIT	'	·
			pins float, such that the Decoder is electrically disconnected from its surroundings.
400	IDI E	-	All internal clocks are disabled,and the power consumption is minimized.
160	IDLE	3-8	Idle, Init and Reset states indication output.
lost Interfac			
2	HWID	'	Determines the width of the host interface data bus.It is allowed to be changed only
			during RESET,A low level (GNDP) Configures the Decoder to an 8-bit host data
			interface, a high level (VDDP) to 16-bit width.
1	HORD	1	Determines the order of bytes on the host interface data bus in case of 16-bit width
			(HWID at VDDP). It is allowed to be changed only during RESET. A low level (GNDP)
			configures the Decoder to input/output the m.s. Byte on HD [15:8]; A high level
		ł	(VDDP) to input/output the m.s.byte on HD [7:0], Must be at GNDP if the houst
			data bus is 8 bits.
4	HTYPE	1	Determines the protocol type for the 8 and 16 bits modes host interface.It is allowed
			to be changed only during RESET.A low level (GNDP) configures the Decoder to
		L	type A, a high level (VDDP) to type B.
17,18	HD[7],HD[6]	3-S	For 16 bits mode,the 8 I.S. Data lines of host data bus. For 8 bits mode,only these
20,21	HD[5],HD[4]	1	signals are defined as host data signals.
22,23	HD[3],HD[2]		
24,25	HD[1],HD[0]		
9,11	HD[11],HD[10]	3-S	When HWID is connected to VDDP, these are data lines 11:8 of the 16-bit host
13,15	HD[9],HD[8]		data bus.
5,6	HD[15],HD[14]	3-S	When HWID is connected to VDDP, these are data lines 15:12 of the 16-bit host
7,8	HD[13],HD[12]		data bus. When HWID is connected to GNDP, these are the CD-DSPI ² S input port.
			pins as explained in the CD-DSP pin description.
27,28	HA[3],HA[2]	I	Host address inputs,These input signals indicate the register accessed in every
29,30	HA[1],HA[0]		cycle on the host interface.
32	HCS#	1	Host chip-select input.
31	HWR#-HR/W#	- 1	In host protocol Type A(HTYPE= GNDP):HR/W# This input determines the direction
			of the host access.
			In host protocol Type B (HTYPE=VDDP):HWR#.Host write input.
34	HRD#-HDS#	- 1	In host protocol Type A (HTYPE = GNDP): HDS#. Data strobe input (active low)
			In host protocol Type B (HTYPE=VDDP):HRD#.Host read input.(active low.)
36	HRDY	3-S	Host ready output. When this signal is tri-stated (i.e, is requires a pull-up resistor),
			up to SysConfig.CodBurstLed bytes of code can be written to the Decoder with no
			need to poll its condition in between. When HRDY is low during a host access,
			the Decoder may still receive at least two additional bytes of code without corrupting
			the data.
37	HIRQ#	3-S	Interrupt request. This output signal requests an interrupt from the host controller,
			if one of the events associated to interrupts occurs, and it is not masked-off. It is
			de-asserted if the host responds to the interrupt by reading the interrupt status
			register, or if the host disables the interrupt, or after RESET
			Deassertion of the HIRQ# output has two modes: De-activated and then tri-stated
			or directly to is a tri-state condition. The pin needs external pull-up resistor.
39	HACK#	HACK#	
Ja	FIACIN#	MACK#	Host acknowledge output. In protocol A, the Decoder indicates that a read or write
			cycle is completed by asserting this output.In protocol B, this signal is used by the
			Decoder to indicate a wait state that may be used by fast hosts. In protocol B the
			host may ignore the HACK# signal.
			When this signal is deasserted it is de-activated and then tri-stated. This pin needs
	l .		an external pull-up resistor.

73

74

U16 ZR36732PQC PINS DESCRIPTION - CONTINUED

Pin No.	Pin Name	Type	Description
General Purpo	se VO (Host Inter		
134	GPAIO	3-S	General purpose input/output pin,monitored/controlled by the audio processor
			software.After RESET, this pin is defined as input.Its definition can be configured
			through ADP commands.
145	GPSI	1	General purpose input,monitored by the system de-multiplexer/video processor
			software.
143	GPSO	0	General purpose output,controlled by the system de-multiplexer/video processor
			software. After RESET it outputs a low level.
DVD-DSP inte	rface		
151	DVDREQ	0	DVD-DSP data request output (programmable polarity)
149	DVDVALID	1	DVD-DSP data valid input (programmable polarity)
148	DVDSOS	1	DVD-DSP start of sector input (programmable polarity)
159,158	DVDAT[7],[6]	1	DVD-DSP data input bus.
157,156	DVDAT[5],[4]	1	
155,154	DVDAT[3],[2]		
153,152	DVDAT[1],[0]		
150	DVDSTRB	1	DVD-DSP data bit strobe (clock)input. Programmable polarity.
147	DVDERR	1	DVD-DSP error indication input.Programmable polarity.
5	CDERR		When HWID is connected to GNDP, these are the CD DSPI2S input port pins as follows:
6	CDFRM		CDERR: data error indication input
7	CDDAT		CDFRM: left/right channel frame input
8	CDCLK		CDDAT: data input
1		[CDCLK:bit clock input
1		1	When HWID is connected to VDDP, these are HD [15:12] of the host data bus ,as
			explained in the host interface pin description.
	ind Clocks Interfa		
127	VCLKx2	3-S	Main video clock.27.000MHz.
92	VCLK	3-S	A division by two of the VCLKx2 signal. This signal is used as a sync qualifier.
95	HSYNC	3-S	Horizontal sync. Polarity and duration are programmable.
93	VSYNC	3-S	Vertical sync. Polarity and duration are programmable.
96	FI	3-S	Field indication. Polarity is programmable.
	Encoder Interface		
102	CVBS/G/Y	0	When the Decoder outputs composite video, this line is CVBS
j	(DAC A)		When the Decoder outputs RGB, this line is the Green output
			When the Decoder outputs YUV, this line is the Y output
105	Y/R/V	0	When the Decoder outputs the composite video, this line is Y
]	(DAC B)	1	When the Decoder outputs RGB, this line is the Red output
400	0/5 " .	_	When the Decoder outputs YUV, this line is the V output
106	C/B/U	0	When the Decoder outputs the composite video, this line is C
	(DAC C)		When the Decoder outputs RGB,this line is the Blue output
102	CVPC/C	0	When the Decoder outputs YUV, this line is the U output
103	CVBS/C	١	When the Decoder outputs any of the types of video this line can be programmed to
108	(DAC D) RSET	-	output either composite or C.
111	VREF		Resistive load for gain adjustment of the DACs Voltage reference for gain adjustment of the DACs
100	COSYNC	3-S	Composite sync output,Active only when RGB analog output is selected. Otherwise,
,00	COSTNO	_~~	the signal is low.
Digital Audio	nterface	Ц	nicongrim io ioff.
131	AMCLK	3-S	Audio Master Clock input/output.128,192,256 or 384 times the sampling frequency
""	AMOLIN	~~	
133	S/PDIF	0	(programmable) S/PDIF transmitter output for digital coded or reconstructed audio data. Alternately
133		"	
138,137	(AOUT[3])	0	can be used as a fourth audio output. After RESET this pin outputs low level. Serial outputs of digital stereo audio.
138,137	AOUT[2],[1] AOUT[0]	١ ١	Serial Sulpuis Of digital Steleti addito.
		·	

U16 ZR36732PQC PINS DESCRIPTION - CONTINUED

Din M.	Din Name	7.	Description
Pin No.	Pin Name	Type	Description
113	AIN ALRCLK	0	Serial input of digital stereo audio.
139	ALROLK	0	Digital audio left/right select output for the audio port. Square wave,at the sampling
141	ABCLK	0	frequency.Programmable polarity interpretation for input. Digital audio bit-clock output. Data on AOUT and AIN is output or latched, respectively,
141	ABULK	0	with the rising or falling (programmable)edge of this clock.
PLL/Clock Inte	arface	L	with the rising of failing (programmable)edge of this clock.
120	GCLK	1	27.000MHz clock or crystal input for main processing clock generation.
117	GCLK1	<u> </u>	27.000MHz clock input for audio master clock generation.in normal operation must be
	COLKY	· ·	connected to GCLK.
119	хо	0	Output to a crystal that is connected to GCLK. If a crystal is not used at GCLK, XO
	λ0	١	must be left not connected.
115	PLLCFG[1]	1	PLL configuration inputs. Allowed to be changed only during RESET. In normal
118	PLLCFG[0]		operation both pins must be connected to GNDP
SDRAM Interf			pertuining but pins must be connected to ONDI
90,87	RAMDAT[15],	3-S	SDRAM bidirectional data bus.
84,81	[14],[13],[12]	"	COTOWN Didirectional data bus.
78,75	RAMDAT[11]		
72,68	[10],[9],[8]		
70,74	RAMDAT[7],[6]		
76,79			
	RAMDAT[5],[4]		
82,85 88,91	RAMDAT(1)(2)		
55,53	RAMDAT[1],[0]		CDRAM address has cutout
	RAMADD[11]	0	SDRAM address bus output.
54,51 48,46	[10],[9],[8]		
43,41	RAMADD[7],[6]		
	RAMADD[5],[4]		
42,45	RAMADD[3],[2]		
47,50	RAMADD[1],[0]		CODAM
60	RAMRAS#	0	SDRAM row select output.
61	RAMCAS#	0	SDRAM column select output.
66	PCLK	0	SDRAM clock output (Same as internal processing clock)
64	RAMDQM	0	SDRAM data masking output.
57	RAMCS0#	0	SDRAM chip select output for the lower (or only) 2MB device (16Mbit)
59	RAMCS1#	0	SDRAM chip select output for the upper 2MB device (16Mbit).
62	RAMWE#	0	SDRAM write enable output.
Test Signal In			
125	SCNENBL		Production test pin (connected directly to GNDP in normal operation).
129	TESTMODE	-	In normal operation this pin must be connected directly to GNDP.
112	ICEMODE#		In normal operation this pin must be connected directly to VDDP.If it is asserted, then the
			ADP goes into ICE mode. In this mode 4 of the Decoder pins turn into ICE interface pins:
			HD[11] = TCK - ICE interface clock
			HD[10] = TMS -ICE interface mode select input
		l	HD[9] = TDO -ICE interface data output
	L		HD[8] = TDI - ICE interface data input
Power Signals			
10,40,49	GNDP		Digital ground of 3.3 V supply.
56,64,69		1	
80,86,97			
128,146			
3,16,19,26	V _{DDP}		3.3V Digital power supply.
38,44,52,58		1	
67,71,77,83		1	
89,94,98,99			
126,135,140			

U16 ZR36732PQC PINS DESCRIPTION - CONTINUED

Pin No.	Pin Name	Туре	Description	
132	GNDP-A2		Digital ground of filtered 3.3V supply for AMCLK.	
130	VDDP-A2		3.3 V filtered digital power supply for AMCLK.	· · · · · · · · · · · · · · · · · · ·
14,35,73	GNDC		Digital ground of 1.8 V supply.	
114,144				
12,33,63	VDDC		1.8 V Digital power supply	
116,142		<u> </u>		
123	GNDA		Ground plane of infernal PLL circuit.	
121	VDDA		1.8 V Power supply for internal PLL circuit.	
104	VDDDAC		3.3 V Analog power supply for the DACs.	
101	GNDDAC_D		Grounds for the DACs 3.3V analog power supply	
107	GNDDAC_B			
109	GNDDAC_P			
110	GNDDAC_S			

U1 5703T (SP3721A) PINS DESCRIPTION

Pin No.	Pin Name	Type	Description
Input Pins	:		
1,2	DVDRFP	ı	RF Signal Inputs. Differential RF signal attenuator input pin.
	DVDRFN		
63	CDRF	1	RF Signal input. Single-ended RF signal attenuator input pin
59,60	AIP,AIN	1	AGC Amplifier Inputs. Differential AGC amplifier input pins.
53,54	DIP,DIN	1	Analog inputs for RF single Buffer. Differential analog inputs to the RF single-ended
			output buffer and full wave rectifier.
32	FDCHG#	1	Low Impedance Enable. A TTL compatible input pin that activates the FDCHG switches.
			A low level activates the switches and the falling edge of the internal FDCHG triggers
			the fast decay for the MIRR bottom hold circuit.(open high)
49	HOLD1	- 1	Hold Control. A TTL compatible control pin which, when pulled high, disables the RF
			AGC charge pump and holds the RF AGC amplifier gain at its present value.(open high)
14-11	A,B,C,D	- 1	Photo Detector Interface Inputs. Inputs from the main beam photo detector matrix
			outputs.
8-5	A2,B2,C2,D2	- 1	photo Detector Interface Inputs. AC coupled inputs for the DPD from the main beam
			photo detector matrix outputs.
16-15	E,F	- 1	CD tracking Error Inputs. Inputs from the CD photo detector error outputs.
3-4	PD1,PD2	1	CD photodetector interface inputs. From the CD photo detector error outputs.
40	MEI	- 1	Mirror Envelope Input.The SIGO envelope input pin.
35	MIN	1	RF signal input for Mirror.AC coupled inputs for the mirror detection circuit from,the
			pull-in signal output.(PI)
21	DVDPD	1	APC Input. DVD APC input pin from the monitor photo diode.
23	CDPD	1	APC Input. CD APC input pin from the monitor photo diode.
25	LDON#	1	APC Output On/Off. APC output control pin. A low level activates the LD output.
			(open high)
Output Pir	15:		
62,61	ATOP/ATON	0	Differential Attenuator Output.Attenuator outputs.
52,51	FNP,FNN	0	Differential Normal Output.Filter normal outputs.
57	SIGO	0	Single Ended Normal Output.Single-ended RF output.
64	CDRFDC	0	CD RF Signal Output.Single ended CD RF summing output.
42	FE	0	Focusing Error Signal Output. Focus error output-reference to VCI.
41	TE	0	Tracking Error Signal Output. Tracking error output reference to VCI.
43	CE	0	Center Error Signal Output. Center error output reference to VCI.
34	MEVO	0	SIGO Bottom Envelope Output.Bottom envelope for Mirror detection.

U1 5703T (SP3721A) PINS DESCRIPTION - CONTINUED

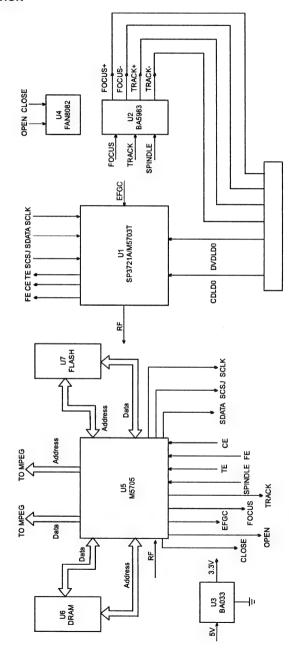
Pin No.	Pin Name	Type	Description
37	DFT	0	Defect Output. Pseudo CMOS output.When a defect is detected,the DFT output goes
			high.Also the servo AGC output can be monitored at this pin,when CAR bits 7-4 are
			'0011'.
29	MIRR	0	Mirror Detect Output. Mirror Detect comparator output. Pseudo CMOS output.
36	PI	0	Pull-in Signal Output.The summing signal output of A,B,C,D or PD1,PD2 for mirror
			detection. Reference to VCI.
22	DVDLD	0	APC output DVD APC output pin to control the laser power.
24	CDLD	0	APC output CD APC output pin to control the laser power.
Analog pi	ns:		
56	BYP	1/0	The RF AGC integration capacitor CBYP,is connected between BYP and VPA.
9	CP	1/0	Differential Phase tracking LPF pin. An external capacitance is connected between
			this pin and the CN pin.
10	CN	1/0	Differential Phase tracking LPF pin. An external capacitance is connected between
		1	this pin and the CP pin.
45	LCP	-	Center Error LPF Pin.An external capacitance is connected between this pin and the
		1	LCN pin.
44	LCN	-	Center Error LPF Pin.An external capacitance is connected between this pin and the
			LCP pin.
30	MP	-	MIRR signal Peak hold pin. An external capacitance is connected to between this pin
	•		and VPB.
31	MB	-	MIRR signal Bottom hold pin. An external capacitance is connected to between this
			pin and VPB.
39	MEV	-	Sigo Bottom Envelope pin. An external capacitance is connected between this pin
			and VPB.
17	CDTE	_	CD Tracking, E-F Opamp output for feedback.
38	TPH	-	PI Top Hold pin. An external capacitance is connected between this pin and VPB.
26	VC	-	Reference Voltage output. This pin provides the internal DC bias reference voltage
			(+2.5V fix). Output impedance is less than 50ohms.
27	VC1	-	Reference Voltage input. DC bias voltage input for the servo input reference.
18	VC12	-	Reference Voltage Input. DC bias voltage input for the servo input reference.
55	RX	-	reference Resistor Input. An external 8.2kohm,1% resistor is connected from this pin
			to ground to establish a precise PTAT (proportional to absolute temperature)
			reference current for the filter,
33	MLPF	-	MIRR signal LPF pin An external capacitance is connected between this pin and VPB.
19	NC	-	No Connect.
Serial Por			TO COMINGE
48	SDEN	1	Serial Data Enable. Serial Enable CMOS input.A high level input enables the serial
		·	port.(not to be left open)
47	SDATA	1/0	Serial Data.Serial data bi-directional CMOS Pin. NRZ programming data for the
			internal registers is applied to this input.(Not to be left open).
46	SCLK	-	Serial Clock Serial Clock CMOS input. The clock applied to this pin is synchronized
-			with the data applied to DSATA.(Not to be left open)
Power Pin	s:		min and approve to both might to be felt open)
58	VPA		Power. Power supply pin for the RF block and serial port.
28	VPB		Power. Power supply pin for the servo block.
50	VNA		Ground. Ground pin for the RF block and serial port.
20	VNB		Ground. Ground pin for the servo block.
	7110		Grownia. Grownia pin for the serve block.

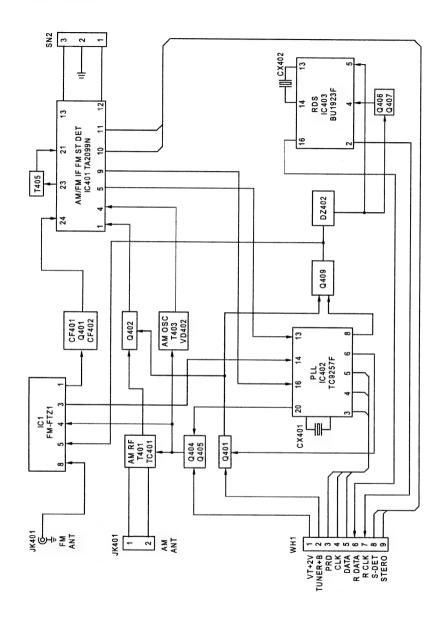
BLOCK DIAGRAMS

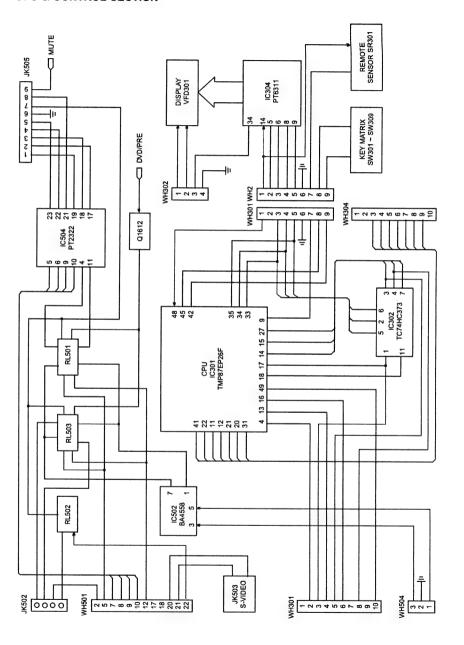
MPEG SECTION

근 U25 WM8739 Adata0 Adata1 Adata2 SCL SDA U13 FLASH U27 LD1117S

SERVO SECTION



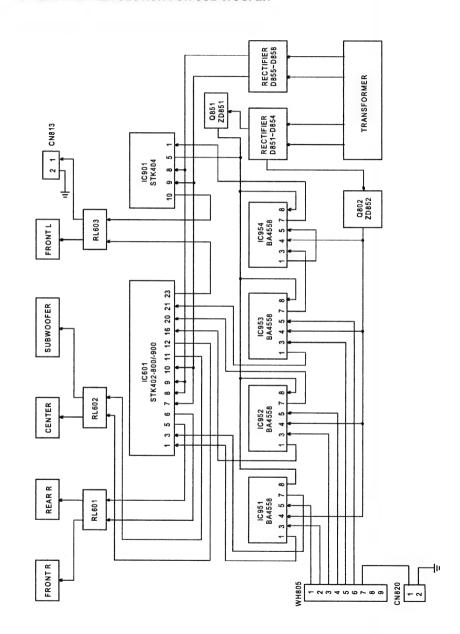




POWER SUPPLY SECTION

Q801 DZ807 RECTIFIER D801~D804 Q802,803 Q804 RECTIFIER D806~D808 Q807,808 Q809 4 6 2 + 0811 RL801 Q801 D820 Q814 Q813 DZ806 D819 T801 REGULATOR IC803 BA05ST IC801 L7805

POWER AMPLIFIER SECTION FOR SUB-WOOFER



200 4 8 9 V 8

1-88/8

AC PLUG

EXPLODED DRAWING PARTS LIST

Ref. No.	Description	Mfr's Part No.	Qty.
MAIN UN		1 0 7 4.101.	4.7.
1	FRONT PANEL, CNS0360 (HIPS,V2) CAV:1, w/PNT (w/RDS)	500-ST6101-xxx	1
2	RUBBER FOOT, 10x10x2.0mm BLACK (NC RUBBER),	700-630141-000	4
	w/SELF-ADHESIVE		i .
3	HALF MIRROR LEFT TRIM, MIRROR LENS, W/PNT	512-ST6119-xxx	1
4	HALF MIRROR DVD DOOR, MIRROR LENS, W/PNT	512-ST6118-xxx	1
5	HALF MIRROR RIGHT TRIM, MIRROR LENS, W/PNT	512-ST6120-xxx	1
6	REMOTE LENS, MOLD TRANS.GREY(J-52858) CAV:4	500-ST6108-000	1
7	VOLUME LIGHT GUIDE, MOLD TRANS.GREEN(80355) CAV:4	509-ST6110-000	1
8	CONTROL KNOB SET, MOLD CNS0360 (ABS) CAV:2, w/SPY, w/o PNT	510-ST6115-xxx	1
9	FRONT PANEL BRACKET, 1.2mm E.G. STEEL	605-DV3235-000	1
10	POWER PCB BRACKET (A), CAV.9 (ABS)	505-ST6111-000	9
11	MPEG PCB BRACKET (B), CAV.2 (ABS)	505-ST6112-000	2
12	LED HOLDER, CAV.1 (ABS)	505-ST6107-000	1
13	VOLUME KNOB (-), MOLD GREY(CNS-0360) (ABS) CAV:2, w/SPY	510-ST6141-xxx	1
14	VOLUME KNOB (+), MOLD GREY(CNS-0360) (ABS) CAV:2, w/SPY	510-ST6104-xxx	1
15	VFD-2COL100x20.5SM-033P, VFD301		1
	VACUUM FLUORESCENT DISPLAY #VFD20-1002 (ZEC)	110 001002 000	•
	REMOTE SENSOR HOLDER, CAV.1 (ABS)	505-ST6109-000	1
17	DISPLAY & KEY PCB STS61AAST-01-02	033-STS61A-101	1
18	MPEG+SERVO PCB STS21AAST-01-02	033-STS21A-101	1
19	TUNNING PCB BRACKET, CAV.1 (ABS)	505-ST6113-000	1
20		613-DV3231-000	2
21		135-HRC021-210	1
	(KUNMING)/MRC-021V-04 (HONDA)	100 11110021 210	
22	SCART PCB STS21AAST-01-05	033-STS21A-104	1
	TUNER PCB STS21AAST-01-04	033-STS21A-103	1
24	OUTPUT PCB STS61AAST-01-03	033-STS61A-102	1
25	DVD DOOR BRACKET, MOLD BLACK (ABS) CAV:2	505-ST6117-000	1
26	SOCKET HOLDER, CAV.8 (ABS)	505-ST6136-000	1
27	DVD MECHANISM w/SAMSUNG CMS-S11MG6	STSD-010SMT	1
28	TOP COVER, T=0.6mm E.G.STEEL, w/SPY w/HOLE (SAME AS DV32-13)	600-ST6143-xxx	1
29	HS&-EXT-AL&-005W-0C FIRM VOLTAGE HEATSINK, 1/POWER PCB		1
	(EXTRUDE AL)		
30	RECTIFIER PCB STS61AAST-01-04	033-STS61A-103	1
31	POWER TRANSFORMER	123-xxxxxxx-xxx	1
32	PUSH SWITCH 2P2T PS3-22SP-W4CW-3.2,	021-032222-000	1
	w/UL.VDE SEMKO APPROVAL (LUP FUNG)		
33	POWER KNOB, MOLD GREY(CNS-0360) (ABS) CAV:2, w/SPY	510-ST6106-xxx	1
34	BACK PLATE, 179x52.5mm, w/PNT	650-ST6126-xxx	1
35	POWER TRANSORMER	123-xxxxxxx-xxx	1
36	BOTTOM CABINET, T=0.8mm (E.G.STEEL)	600-ST6114-000	1
37	TF STEEL PLATE, 0.35mm SI STEEL (Z11)	650-ST6146-000	1
	HANDLE, MOLD BLACK (P.P) CAV:4, FOR CARTON	504-ST6145-000	2
	w/RECYCLE MARK ENGRAVE		
	AUDIO OUT PLATE, S:35x31mm, R.1mm, BLK PVC, w/PNT	650-ST6123-xxx	1
	SCREW 3x6mm BB T.T.S. (S TYPE) NI PLATED (TSB#9878107200)	722-080308-060	9
	SCREW ST3x8mm, PB BRASS BASED 8/ELE PARTS TO B CAB	720-050300-080	9
	1/TUN PCB TO TUN PCB BKT		
	FIBRE WASHER Ø12.0xØ3.0x1.0mm 2/SET	532-303012-100	2
	SPRING WASHER 3mm Zn 4/TX	532-403000-000	4

85

EXPLODED DRAWING PARTS LIST - CONTINUED

Ref. No.	Description		Marin David N	<u> </u>
Rei. No.	TF PVC PLATE, 0.5mm PVC		Mfr's Part No.	Qty
			650-ST6137-000	1
	FELT PAPER, BLACK, 75x6.5x0.8mm w/ADHESIVE	1/FRONT PANEL	700-3D5256-000	1
	*CdF SPK. BOX FELT 80x8x0.3mm, BLACK,	1/SET	700-993856-000	1
	(TSB#PM0005432010)			1
	REMOTE SENSOR INVISIBLE FELT	1/SET	700-SD1614-000	1
	FELT B, 50x15x0.3mm HIMERON, w/SONY T-3500,	4/SET	700-SDC019-001	4
	2-SIDED TAPE(T#9871858900)			
	SCREW ST3x10mm, PB BRASS BASED	1/TUNING PCB BKT	720-050300-100	1
	SCREW 3x8mm, PM BRASS BASED	4/TX	721-010300-080	4
	SCREW ST3x8mm BB T.T.S. (B TYPE),	4/IC TO HEAT SINK	722-080307-082	6
	CBTS(P)-Z CHROMATE PLATING CBTB 3x8 MC)	2/PCB TO HEAT SINK		
	(F722-080308-182) SCREW 3x18mm BB T.T.S. (S TYPE)	2/PCB BKT TO B. CAB.	722-080308-180	2
	SCREW 3x14mm PM TTS w/NICKEL-PLATED	9/PCB BKT TO B CAB		10
		1/BKT TO BTM		
	SCREW 3x20mm PM T.T.S. (STP 3x20 NI)	4/MECHANICAL		4
	*CdF NUT M3x0.5 PITCH Ni	4/TX		4
	SPONGE, SIZE:15mmx15mmx10mm	4/1/	700-0228A3-000	3
	*CdF 4" CABLE/PLASTIC TIE (SKB-1M/CV-100)		727-000100-000	3
	PVC TUBE AWG1 INNER DIA. 7.35mm DC-3,	UNIT"M"		-
	(DAE CHANG) (UL/CSA APP.) TRANSPARENT	UNITM	728-000073-000	0.0
	*CdF PVC HEAT SHRINKABLE TUBE DIA.3.5mm,	4.0.11		
		UNIT"M"	728-015035-000	0.0
	(UNITUBE) (UL/CSA APP)			
	SENSOR SHIELDING PLATE, COPPER FOIL (SELF ADHE	SIVE)	650-ST6140-000	1
	PCB SHIELD FIBRE PAPER		700-ST6122-000	1
	DIFFUSING PAPER (PAPER D207)		700-ST6139-000	1
	SCREW ST2.6x10mm, PB BRASS BASED	5/PCB F.PANEL	720-050260-100	5
	SCREW ST2x6mm, BB BRASS BASED	1/LIGHT GUIDE TO F.PANEL	720-110200-060	1
	SCREW ST3x12mm, BB HEAD V5.9-6.3,	2/F.PANEL BKT-F.PANEL	720-110300-120	2
	BB BRASS BASED (P TYPE)			
	*CdF FUSE HOLDER, HTF-015		550-790000-000	4
VD ME	CHANISM - STSD-010SMT			
1	DRIVE GEAR, MOLDED BLACK, CAV.2, POM M90 94HB		509-CD3205-000	1
2	LM BELT, MOLD BLK, DIA:28x1.85x1.85 LOY-BELT-CR		700-0CDD40-002	1
	MOTOR BELT (RUBBER)			
3	PULLEY GEAR, MOLDED BLACK, CAV.4, POM M90 94HB		509-CD3206-000	1
4	CHUCK YOKE, MOLDED BLACK, CAV.2 (ABS)		509-DVD302-000	1
5	SLIDER, MOLDED BLACK, CAV.2 (ABS)		509-CD3204-000	1
6	CHASSIS,MOLDED BLACK, CAV.1 (HIPS)		509-CD3202-000	1
7	LEAF SWITCH LS-121-0A (LUP FUNG)		022-001210-001	1
8	TRAY, MOLDED BLACK, CAV.1 (ABS)		509-CD3201-000	1
9	(F700-0CDD18-000) MOTOR PULLEY, MOLDED BLACK,		509-0CDD18-000	1
	POM M90 94HB, CAV:6 (POM)			·
10	MOTOR-DC-006V-NORMAL 6V #RF-500TB-12560,		151-061256-000	1
	(MABUCHI) 10gm (KSM-2101-ABM-AL)		101 001200 000	•
1	LOAD MOTOR PCB STS21AAST-01-09		033-STS21A-108	1
1	SPRING PLATE, 0.2T S.S.		650-CDD307-000	1
	CHUCK PLATE, 0.21 3.3. CHUCK PLATE, DIA:19.9/DIA:3.5x0.8 ELECTROLYTIC ST.	PLATE	650-DVD307-000	1
	CD MECHANISM HOLDER, MOLDED NATURAL, CAV.2 (AF		505-CD3203-000	1
	CHUCK PULLEY, MOLDED BLACK, CAV.2 (ABS)	30,	509-DVD301-000	1
- 1				1
16 l				
	FFC CABLE HOLDER, MOLDED BLACK, CAV.4 (ABS) DVD-FLC-01-SAMG-N DVD MECHANISM FOR CD-R		505-CD3210-000 163-000216-000	1

86

EXPLODED DRAWING PARTS LIST - CONTINUED

Ref. No.	Description		Mfr's Part No.	Qty.
18	DVD CUSHION, CR HARDNESS 50+-2 DURO BLACK		700-DVD304-000	4
19	METAL BRACKET, 1.0 THK E.G.STEEL		605-CD3211-000	1
20	METAL BRACKET, 1.0 THK E.G.STEEL		605-CD3211-000	1
1	SCREW ST2.6x10mm, BB BRASS BASED (P TYPE)		720-110260-100	2
	METAL WASHER DIA:2.8/DIA:9.5x0.5mm		532-202809-550	1
	PLANE WASHER DIA:2.8xDIA:7x0.5mm	2/MOTOR-CHASSIS	532-202807-050	2
	METAL WASHER DIA:2.8/DIA:9.5x0.5mm	4/DVD-CHASSIS		4
	PVC WASHER Ø10xØ6.05x0.1mm, K890-43	1/SET	532-510006-010	1
	FOAM RUBBER, 6x5x4.5mm (HARDNESS 60 PAD CORD)		700-0CDD48-001	1
ł	SHIELD CORE (MABUCHI 53-192AB)		700-0CDD50-000	'
1	HEATSINK SPACER, 50x6x2mm,	1.4PCS/SET		1.4
1	INOAC RUBBER SPONGE C-4305 (BLK) w/TAPE	1.41 00/021	700 2 10003 000	"
	SCREW ST2x5mm PB BRASS BASED (M2.3 HEAD)	1/LEAF SW	720-050200-050	,
1	OSTATO TEXONIANT DESTATO BAGED (ME.STIEAD)	1/SPRING PLATE	720-050200-050	-
	SCREW 2.6x5mm PM w/CHROMATE-PLATING	2/MOTOR-CHASSIS	704 040000 050	2
1	SCREW 2.6x10mm BB T.T.S. (P TYPE) CHROMATE PLATING.	2MUTUR-CHASSIS		_
	(BTTB2.6x10MC)		722-080260-102	6
	CdF 4 CABLE/PLASTIC TIE (SKB-1M/CV-100)			
CENTER	SPEAKER PORTION - SSQC3		727-000100-000	1
1		0mmX160mm)X1PC/SET	662-0FP662-000	0.0252
	WIDTH:60"-62"	UNIT"YD"	002-0FF002-000	0.0252
2	SPEAKER CLOTH MESH, CAV.2 (HIPS)	UNITED	500 000000 000	
3	SPEAKER PANEL, MOLD CNS-0360 (HIPS), W/SPY		509-SQC303-000	1
4			500-SQC301-xxx	1
*	SPK00003"008OHM0050W w/BK DOME PAPER CAP		131-308050-010	1
_ ا	#LF77SZ4307G55C8AS19PDB (GGEC) (L0234)			
5	HOLE COVER, MOLD CNS-0360 (HIPS) CAV:8		500-SSQ104-000	2
6	SPEAKER CABINET, MOLD GREY(CNS-0360) (HIPS),		500-SQC102-000	1
_	w/ENGRAVING			
7	PUSH TERMINAL BOARD PT-213-03 BLACK, RED,		118-000213-000	1
	MSP-105H-03 BLACK, RED			
	*CdF SPK. BOX FELT 80x8x0.3mm, BLACK,	2/SPK CAB	700-993856-000	2
	(TSB#PM0005432010)			
ì	SPEKAER GASKET, 1.5 THK FOAM RUBBER		700-SQC204-000	1
	SCREW ST3x20mm, PAB BRASS BASED	4/CAB-SPK PANEL	720-010300-200	4
1	SCREW ST3x8mm, BB HEAD V5.9-6.3, BB BRASS BASED		720-110300-080	2
	2/PUSH TER	MINAL BOARD-SP CAB		
	SCREW ST3x10mm BB HEAD V5.9-6.3 BRASS BASED	4/SPK-SPK PANEL	720-110300-100	4
SUB-WO	OFER PORTION - SWT1A			
1	SUB WOOFER PANEL, MOLD CNS0360, (HIPS) w/PNT		500-SWT106-xxx	1
2	LED PCB SWT1-01-06		033-00SWT1-600	1
3	SUB-WOOFER TUBE, MOLD L.GREY (CNS-0360) (HIPS) CAV:4	l	509-SWT202-000	1
4	SW BOX, 15mm PARTICAL BD, 220x380x285mm,	İ	660-SWT107-xxx	1
	SIL PVC MOKU ME-2907,w/SPY (30W)			
5	SPEAKER POST ADAPTOR, MOLDED NATURAL, CAV.8 (ABS)		503-650127-000	6
6	RUBBER STAND, 22x8mm, BLACK, 7900, K-1S		700-021000-000	4
7	SPK006.5"004OHM0120W w/BK DOME PAPER CAP		131-6540A0-010	1
	#SW165RZ5802G100F4AS36PFB (L0257)			•
8	SPEAKER MESH, MOLDED BLACK, CAV.2 (HIPS) REV.1		509-299973-001	1
9	SPEAKER CLOTH #FP-662-0WT (SILVER GREY), WIDTH:60"-62"		662-0FP662-000	0.07
		WOOFER (320x320mm)	002-UFF002-UUU	0.07
	FOR SUB			
		UNIT"YD"		

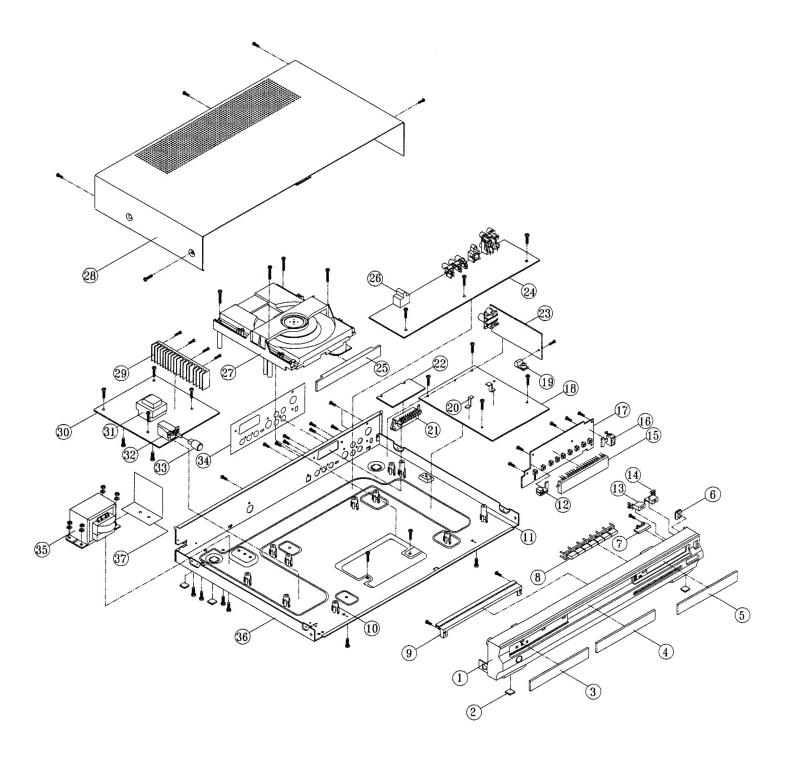
EXPLODED DRAWING PARTS LIST - CONTINUED

	EXPLODED DRAWING PAR			
Ref. No.	Description		Mfr's Part No.	Qty.
10	AMP.BRACKET, MOLD L.GR(CNS-0360) (HIPS 94V0), CA		505-SWT104-000	1
11	(F550-823843-000) L BRACKET, MOLDED NATURAL (AB	3S)	505-823843-000	2
12	SUB-WOOFER AMPLIFIER PCB SWT1-01-05		033-00SWT1-600	1
13	(F550-266422-000) MOUNTING BRACKET, MOLDED NA	TURAL,	505-266422-000	2
	CAV.8 (ABS)			-
14	CONNECTION PCB SWT1-01-04		033-00SWT1-600	1
15	POWER TRANSFORMER		123-xxxxxxx-xxx	1
16	DISPLAY & KEY PCB SWT1-01-02		033-00SWT1-600	1
17	(F550-630123-000) PCB CONNECTION BRACKET,		505-630123-000	4
	MOLDED BLACK, CAV.4 (ABS)			-
18	OUTPUT PCB SWT1-01-03		033-00SWT1-600	1
19	SOCKET HOLDER, CAV.8 (ABS)		505-ST6136-000	1
20	SUB-WOOFER AMPLIFIER PCB SWT1-01-01		033-00SWT1-600	1
21	IC BRACKET, 1.0mm THK E.G.STEEL		605-SWT112-000	1
22	HEAT SINK, EXTRUDE ALUMINIUM		613-SWT111-000	1
23	BACK COVER PLATE, 1.2mm THK E.G. STEEL w/PNT,		650-SWT109-xxx	1
	S:313x194.5mm			
24	HEAT SINK COVER, MOLD L.GREY(CNS-0360) (HIPS) C	:AV:1	500-SWT108-000	1
25	SHIELDING PCB SWT1-01-07		033-00SWT1-100	1
	METAL WASHER 3.5x10x0.5mm	4/SW BOX	532-203510-050	4
	FIBRE WASHER 3x8x1mm (NF77)	6/HEAT SINK	532-303008-100	6
	*CdF FIBRE WASHER Ø3.5x8x0.4mm (DIA:3x8x0.4mm)	2/AMP PCB	532-303508-040	2
	SPRING WASHER 4mm BLACK	6/TF	532-404000-000	6
	SOUND TUBE GASKET, DIA:68x1.5mm EVA		700-SWT213-000	1
	TUBE CUSHION, 5mm THK RUBBER FOAM,	1.5/SPEAKER	700-299633-000	1.5
	w/DOUBLE SIDE TAPE			
	SCREW ST2.6x8mm, PAB (M3 HEAD) (M3H),	12/PCB BKT	720-010260-080	12
	BRASS BASED			
	SCREW ST2.6x6mm BB BRASS BASED	2/LED PCB	720-110260-060	2
	SCREW ST3x8mm, BB HEAD V5.9-6.3,	2/L BKT	720-110300-080	4
	BB BRASS BASED	2/MOUNTING BKT		
	SCREW ST3x10mm BB HEAD V5.9-6.3 BRASS BASED	9/PCB	720-110300-100	27
	WOOD SCREW ST4x20mm PWA CHIT BOARD,	8/AMP BKT-SUB WOOFER BOX	720-180400-202	8
	W=9.5-10mm YELLOW ZINC			
	WOOD SCREW ST3x12mm BA CHIT BOARD	4/RUBBER STAND	720-190300-120	18
		4/SPK-SW BOX		
	6/SF	PK POST ADAPTOR TO SW BOX		
	4/S	UB WOOFER TUBE TO SW BOX		
	SCREW M3x8 PM BLACK ZINC	4/HEAK SINK COVER	721-010300-081	4
	SCREW 4x16mm, PM	6/TRANSFORMER	721-010400-160	6
	SCREW ST3x8mm BB T.T.S. (B TYPE),	6/HS-BACK PLATE	722-080307-082	6
	CBTS(P)-Z CHROMATE PLATING CBTB 3x8 MC)			
	SCREW ST3x16mm BB T.T.S. (B TYPE) CBTS(P)-Z	4/POWER IC	722-080307-160	4
	NUT M4	6/TF	725-000040-000	6
	*CdF 4" CABLE/PLASTIC TIE (SKB-1M/CV-100)	3	727-000100-000	4
	*CdF PVC TUBE AWG3 INNER DIA:6.0mm,	UNIT"M"		0.16
	(DAE CHANG/TAE IK) (UL/CSA APP.)	2		
	PVC TUBE AWG1 INNER DIA. 7.35mm DC-3,	UNIT"M"	728-000073-000	0.75
	(DAE CHANG) (UL/CSA APP.) TRANSPARENT	2.27 10		
	*CdF PVC HEAT SHRINKABLE TUBE DIA.3.5mm,	UNIT"M"	728-015035-000	0.04
	(UNITUBE) (UL/CSA APP)	2	300	

EXPLODED DRAWING PARTS LIST - CONTINUED

Ref. No.	No. Description		Mfr's Part No.	Qty.
	*CdF FUSE HOLDER, HTF-015		550-790000-000	8
4-SPEA	(ER PORTION - SSQ3			
1	SPEAKER CLOTH #FP-662-0WT (SILVER GREY)	(200mmX160mm)X4PCS/SET	662-0FP662-000	0.0875
	WIDTH:60"-62"	UNIT"YD"		
2	SPEAKER CLOTH MESH, CAV.4 (HIPS)		509-SSQ303-000	4
3	SPEAKER PANEL, MOLD CNS-0360 (HIPS), w/SPY		500-SSQ301-xxx	4
4	SPK00003"008OHM0050W w/BK DOME PAPER CAP		131-308050-010	4
	#LF77SZ4307G55C8AS19PDB (GGEC)(L0234)			
5	HOLE COVER, MOLD CNS-0360 (HIPS) CAV:8		500-SSQ104-000	4
6	SPEAKER CABINET, MOLD GREY(CNS-0360) (HIPS), w/ENGRAVING		500-SSQ102-000	4
	PUSH TERMINAL BOARD PT-213-03 BLACK, RED,		118-000213-000	4
	MSP-105H-03 BLACK, RED			
	FELT B, 50x15x0.3mm HIMERON w/SONY T-3500,	4/SET	700-SDC019-001	4
	2-SIDED TAPE (T#9871858900)			
	SCREW ST3x35mm, PAB (M3.5 HEAD) BRASS BASED	16/CAB-SPK PANEL	720-010300-350	16
	SCREW ST3x8mm, BB HEAD V5.9-6.3,	8/PUSH TER.BOARD-SPK CAB	720-110300-080	8
	BB BRASS BASED			
	SCREW ST3x10mm BB HEAD V5.9-6.3 BRASS BASED	16/SPK-SPK PANEL	720-110300-100	16

EXPLODED DRAWING - MAIN UNIT



(SSQC3)

